



LEGEND:

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- CENTERLINE
- EASEMENT
- WATER LINE
- SAN --- SANITARY SEWER
- UC --- UNDERGROUND COMM.
- FO --- FIBER OPTIC
- UP --- UNDERGROUND POWER
- OHW --- OVERHEAD WIRES
- STORM DRAIN
- 45' --- EX. INDEX CONTOUR
- 44' --- EX. INTERMEDIATE CONTOUR
- +10.00 EX. SPOT ELEVATION
- 45' INDEX CONTOUR
- 44' INTERMEDIATE CONTOUR
- 48.35 PROPOSED ELEVATION
- M.E. MATCH EXISTING DRAINAGE FLOW
- (A) ACTUAL BEARINGS AND DISTANCES BEARINGS AND DISTANCE OF RECORD INFORMATION PER PLAT
- LIGHT POLE
- POWER POLE
- GUY ANCHOR
- SIGN
- ELECTRICAL BOX
- FIBER OPTIC BOX
- TELEPHONE BOX
- WATER METER
- WATER VALVE

- BACKFLOW PREVENTER
- FIRE HYDRANT
- D STORM DRAINAGE MANHOLE
- DRAINAGE INLET
- STORM DRAIN CLEANOUT
- S SANITARY MANHOLE
- SANITARY CLEANOUT
- BENCHMARK
- △_{IPF} IRON PIPE FOUND
- △_{IRF} IRON ROD FOUND
- △_{CRF} CAPPED REBAR FOUND
- _{OTF} OPEN TOP PIPE FOUND
- _{CRS} CAPPED REBAR SET
- _{PKS} PK NAIL SET
- HANDICAP PARKING SPACE
- CONCRETE SURFACE
- HEAVY DUTY ASPHALT
- STANDARD DUTY ASPHALT
- LANDSCAPED AREA
- DEMOLITION (TO BE REMOVED)

DISTURBED ACREAGE:

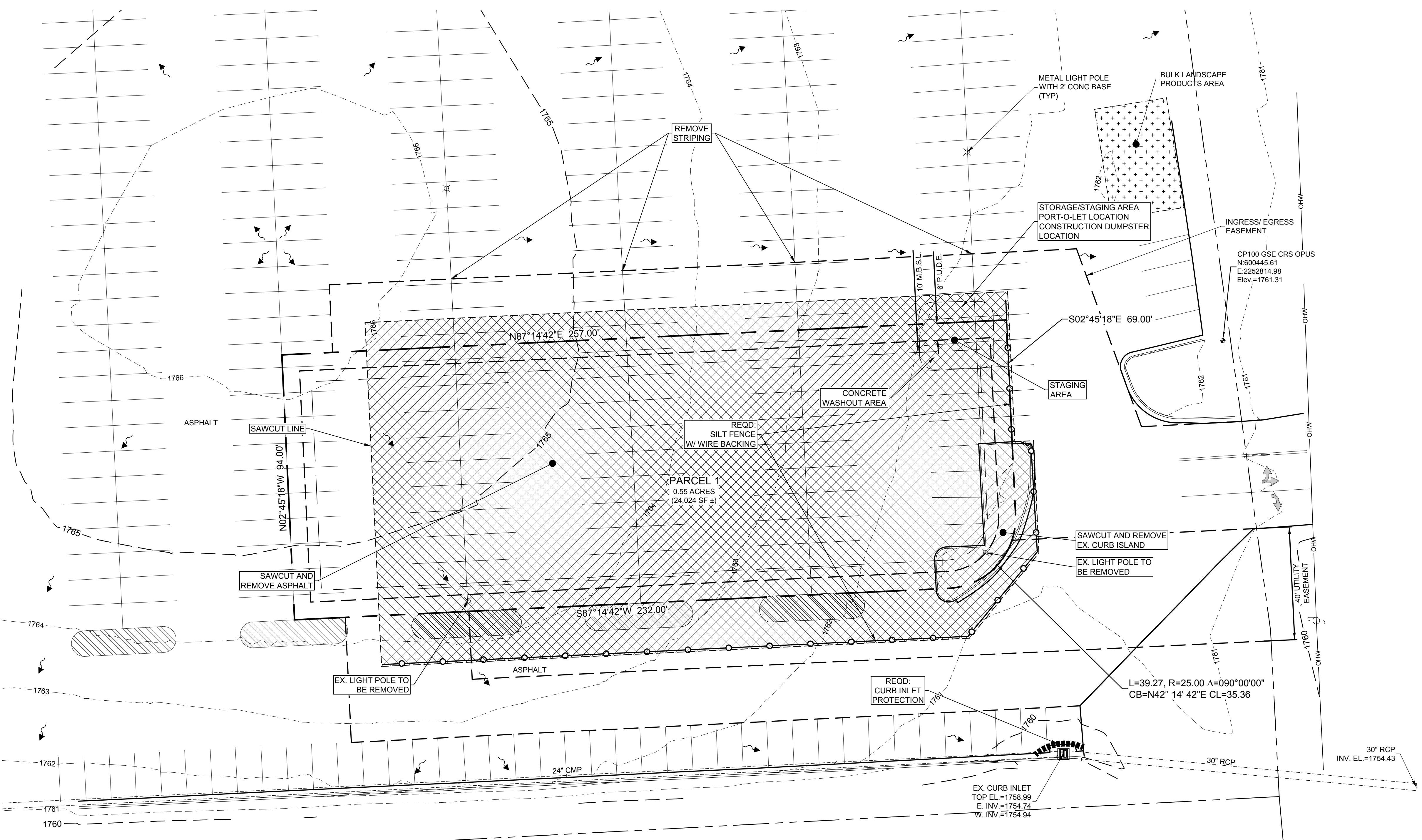
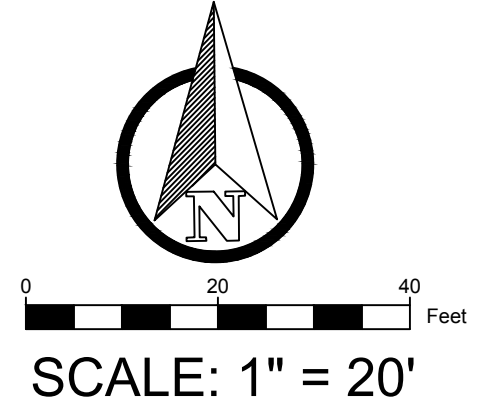
0.64 ACRES (27,894 S.F. ±)

EROSION CONTROL LEGEND:

- SILT FENCE W/ WIRE BACKING
- CURB INLET PROTECTION
- 215 EX. INDEX CONTOUR
- 214 EX. INTERMEDIATE CONTOUR

DEMOLITION NOTES:

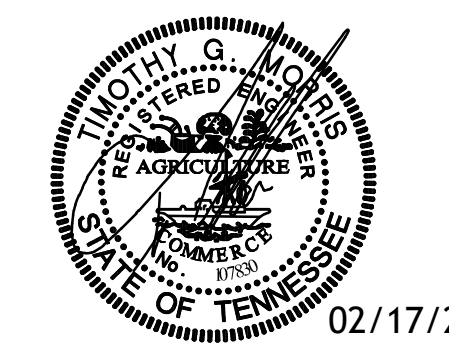
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE TENNESSEE ONE CALL SERVICE FOR UNDERGROUND UTILITY DESIGNATIONS PRIOR TO CONSTRUCTION. ALL EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE FOR REFERENCE PURPOSES ONLY. THE ENGINEER OF RECORD MAKES NO GUARANTEE OF ACCURACY OF SAID UTILITY LINES.
- THE CONTRACTOR SHALL DISPOSE OF ALL CONSTRUCTION DEBRIS IN A MANNER COMPLIANT WITH ALL FEDERAL, STATE AND LOCAL CODES. NO CONSTRUCTION DEBRIS WILL BE STOCKPILED ON THE PROJECT SITE OR ADJACENT SITES.
- CONTRACTOR SHALL CONTACT TDOT 48 HOURS PRIOR TO CONSTRUCTION THAT REQUIRES LANE CLOSURE ON STATE HIGHWAY 127.



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Building Shell | McAlister's Deli
 N. Main Street
 Crossville, Tennessee 38555

PROJECT # 1209.0422A
 ISSUED FOR PERMIT REV 0 02.17.23



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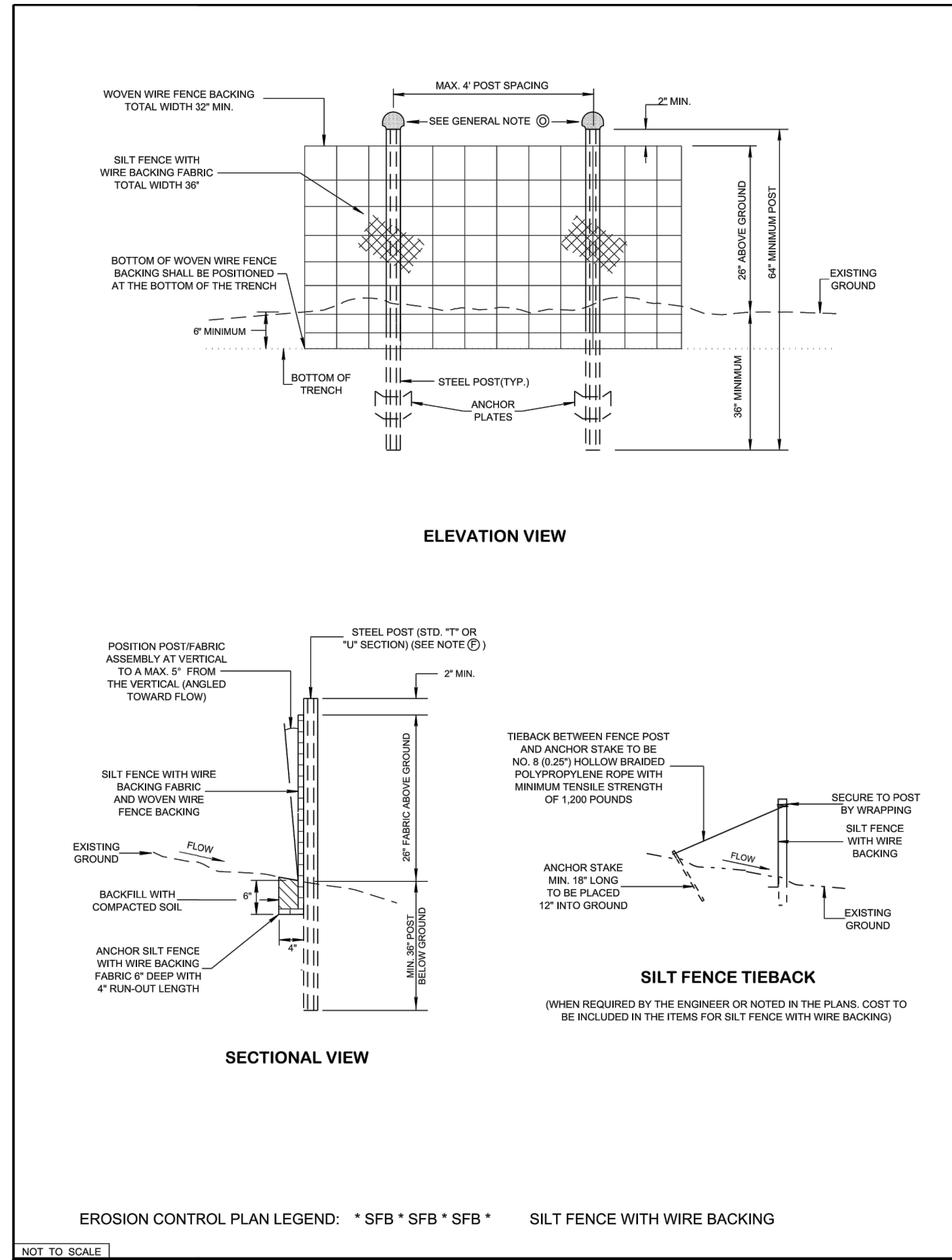
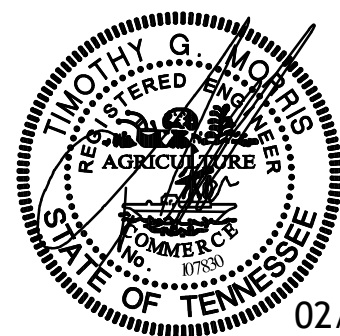
SHEET:

C1.0
 DEMOLITION AND EROSION
 & SEDIMENTATION
 CONTROL PLAN

FOR PERMITTING ONLY



176 Thompson Lane #200, Nashville, TN 615.933.7888(T)



SILT FENCE WITH WIRE BACKING FABRIC SPECIFICATIONS	
FABRIC PROPERTY AND TEST METHODS	REQUIRED PHYSICAL PROPERTIES (MARY VALUES OF TEST DATA)
GEOTEXTILE FABRIC TYPE	WOVEN MONOFILAMENT
APPEARANT OPENING SIZE (ASTM D4751)	# 70 TO # 100 STANDARD SIEVE
WATER FLUX (ASTM D4891)	> 18 GPM/FT ²
TENSILE STRENGTH (ASTM D4832)	> 310 LB. (SWAP DIRECTION) X 200 LB. (FULL DIRECTION)
ULTRAVIOLET STABILITY (AFTER 500 HRS PER ASTM D4355)	> 50%
BURST STRENGTH (ASTM D3786)	> 400 PSI
PUNCTURE STRENGTH (ASTM D4833)	> 105 LB.
TRAPEZOIDAL TEAR (ASTM D4533)	> 100 LB. (SWAP DIRECTION) X 60 LB. (FULL DIRECTION)

GENERAL NOTES	
1. SILT FENCE WITH WIRE BACKING IS USED TO INTERCEPT SMALL AMOUNTS OF SEDIMENT AND REDUCE VELOCITY FROM SHEET FLOW ONLY. USE SILT FENCE WITH WIRE BACKING UP-GRADEMENT TO, AND ALONG THE PERIMETER OF STREAMS, WETLANDS, PONDS, SPRINGS, OR OTHER NATURAL WATER RESOURCES LOCATED WITHIN OR ADJACENT TO THE PROJECT RIGHT-OF-WAY AND AT LARGE FILL SLOPES.	
2. THE MAXIMUM DRAINAGE AREA SIZE FOR CONTINUOUS SILT FENCE WITH BACKING SHALL BE 1 ACRE PER 150 LINEAR FEET OF FENCE LENGTH. MAXIMUM SLOPE LENGTH BEHIND FENCE ON SLOPE SIDES SHALL BE 200 FEET (AS MEASURED ALONG THE GROUND SURFACE).	
3. WHEN INSTALLED AT THE TOE OF A SLOPE SILT FENCE WITH WIRE BACKING SHOULD BE PLACED 5 FEET TO 10 FEET AWAY FROM THE TOE TO ALLOW SPACE FOR PONING OF WATER, COLLECTION OF SEDIMENT, AND EASE OF MAINTENANCE AND REMOVAL.	
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED. CAPTURED SOIL MATERIAL SHALL BE REMOVED WHEN "MUDGIES" DEVELOP IN THE SILT FENCE AND/OR WHEN EVIDENCE OF FILTER CLOGGING IS OBSERVED.	
5. STEEL POSTS SHALL BE ROLLED FROM HIGH CARBON STEEL AND SHALL HAVE A MINIMUM WEIGHT OF 1.25 LB/FT. POSTS SHALL BE HOT-DIPPED GALVANIZED OR PAINTED WITH HIGH GRADE WEATHER RESISTANT STEEL PAINT. STEEL POSTS SHALL BE EQUIPPED WITH AN ANCHOR PLATE HAVING A MINIMUM AREA OF 14 SQUARE INCHES. POSTS SHALL BE STUDDED, EMBOSSED, OR PUNCHED TO ADD IN THE ATTACHMENT OF THE WIRE BACKING. POSTS AND ANCHOR PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A702.	
6. STEEL POSTS SHALL HAVE A PROJECTION FOR FASTENING WIRE TO THEM. WOVEN WIRE FENCE BACKING TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. THE WIRE FASTENERS SHOULD BE EVENLY SPACED WITH AT LEAST SIX PER POST.	
7. FABRIC SHALL BE FASTENED SECURELY TO WOVEN WIRE FENCE BACKING WITH THE TIES SPACED EVERY 24 INCHES ALONG TOP AND MIDSECTION.	
8. WOVEN WIRE FENCE BACKING SHALL MEET THE REQUIREMENTS FOR ASTM A-116 FOR NO. 11 FARM, DESIGN NO. 832-6-11, CLASS 3 COATING.	
9. SILT FENCE WITH BACKING SHOULD BE PLACED ALONG OR NEAR THE GROUND CONTOURS. THE BOTTOM OF THE FENCE AT GROUND LINE SHOULD BE ON A ZERO PERCENT (0% GRADE, PLUS OR MINUS ONE-HALF PERCENT (0.5%)). THE END OF A ROW OF SILT FENCE WITH WIRE BACKING SHOULD BE TURNED UP-SLOPE FORMING A J-HOOK TO FILTER ANY CONCENTRATED FLOW BEHIND FENCE.	
10. FOR TRENCH-BASED INSTALLATIONS, SILT FENCING WITH WIRE BACKING SHALL BE INSTALLED PER THE FOLLOWING STEPS AND IN THE FOLLOWING ORDER: <ol style="list-style-type: none"> 1. EXCAVATE TRENCH A MAXIMUM OF 4 INCHES WIDE AND 6 INCHES DEEP. THE TRENCH SHALL BE HAND-CLEANED FOLLOWING EXCAVATION TO REMOVE BLASTY DEBRIS SUCH AS ROCKS, STYROS, AND SOIL CLOSER FROM THE TRENCH. 2. DRIVE AND SET SUPPORT POSTS PER SPACING REQUIREMENTS GIVEN ON THE APPLICABLE FENCE DETAIL. 3. ATTACH WOVEN WIRE FENCE BACKING TO POSTS AND FABRIC TO THE WIRE BACKING USING WIRE TIES. SPACING AND DENSITY OF TIES SHALL BE INSTALLED ACCORDING TO NOTES (A) AND (B). 4. INSTALL FABRIC IN TRENCH. 5. BACKFILL TRENCH (COVER-FILL) WITH SOIL PLACED AROUND FABRIC. 6. COMPACT SOIL BACKFILL WITH MECHANICAL EQUIPMENT. DO NOT DAMAGE THE FABRIC DURING COMPACTION (DAMAGED FABRIC SHALL BE REPLACED). 	
11. ONLY SILT FENCE WITH WIRE BACKING FABRIC LISTED ON THE QUALIFIED PRODUCTS LIST MAY BE USED. ANY PRODUCTS LISTED ON THE QUALIFIED PRODUCTS LIST AS AN APPROVED ALTERNATE MAY ALSO BE USED.	
12. SILT FENCE WITH WIRE BACKING SHALL BE PAID FOR UNDER THE FOLLOWING ITEM NUMBER: <ul style="list-style-type: none"> 209-08-02 TEMPORARY SILT FENCE (WITH BACKING), L.F. PAYMENT SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY FOR CONSTRUCTION, MAINTENANCE, AND REMOVAL OF THE SILT FENCE WITH WIRE BACKING.	
13. SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT FENCE WITH WIRE BACKING WHEN IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE STRUCTURE AND PAID FOR UNDER ITEM NUMBER 209-05, SEDIMENT REMOVAL PER C.Y.	
14. ORANGE SAFETY CAPS FOR METAL POSTS SHALL BE REQUIRED TO MEET OSHA REGULATION 1926.701. ALL COSTS OF THE CAPS TO BE INCLUDED IN THE COST OF THE FENCE.	

REV. 10-18-02: MODIFIED TABLE 2 AND GENERAL NOTE (1)

REV. 10-18-04: CHANGED VALUES IN TABLE 2 FROM MARY TO MARY VALUES

REV. 4-15-06: MODIFIED FABRIC HEIGHT AND WIDTH (MAX. 50' HORIZONTAL TIE). REFORMATTED GENERAL NOTES. REFORMATTED SHEET. REVISED NOTES. MISC. EDITS TO DRAWING.

REV. 4-15-06: MINOR EDITS TO GENERAL NOTES.

REV. 8-1-12: MINOR EDITS TO GENERAL NOTES.

REV. 4-15-06: REFORMATTED SHEET, REVISED NOTES, MISC. EDITS TO DRAWING.

REV. 4-15-06: MISC. MINOR EDITS TO GENERAL NOTES.

REV. 8-1-12: MINOR EDITS TO GENERAL NOTES.

MINOR REVISION - FIRM APPROVAL NOT REQUIRED

STATE OF TENNESSEE
TEMPORARY DRAWING
DEPARTMENT OF TRANSPORTATION

SILT FENCE WITH WIRE BACKING

15-10-2022 EC-STR-3C

REV. 4-15-06: REFORMATTED SHEET, REVISED NOTES, MISC. EDITS TO DRAWING.

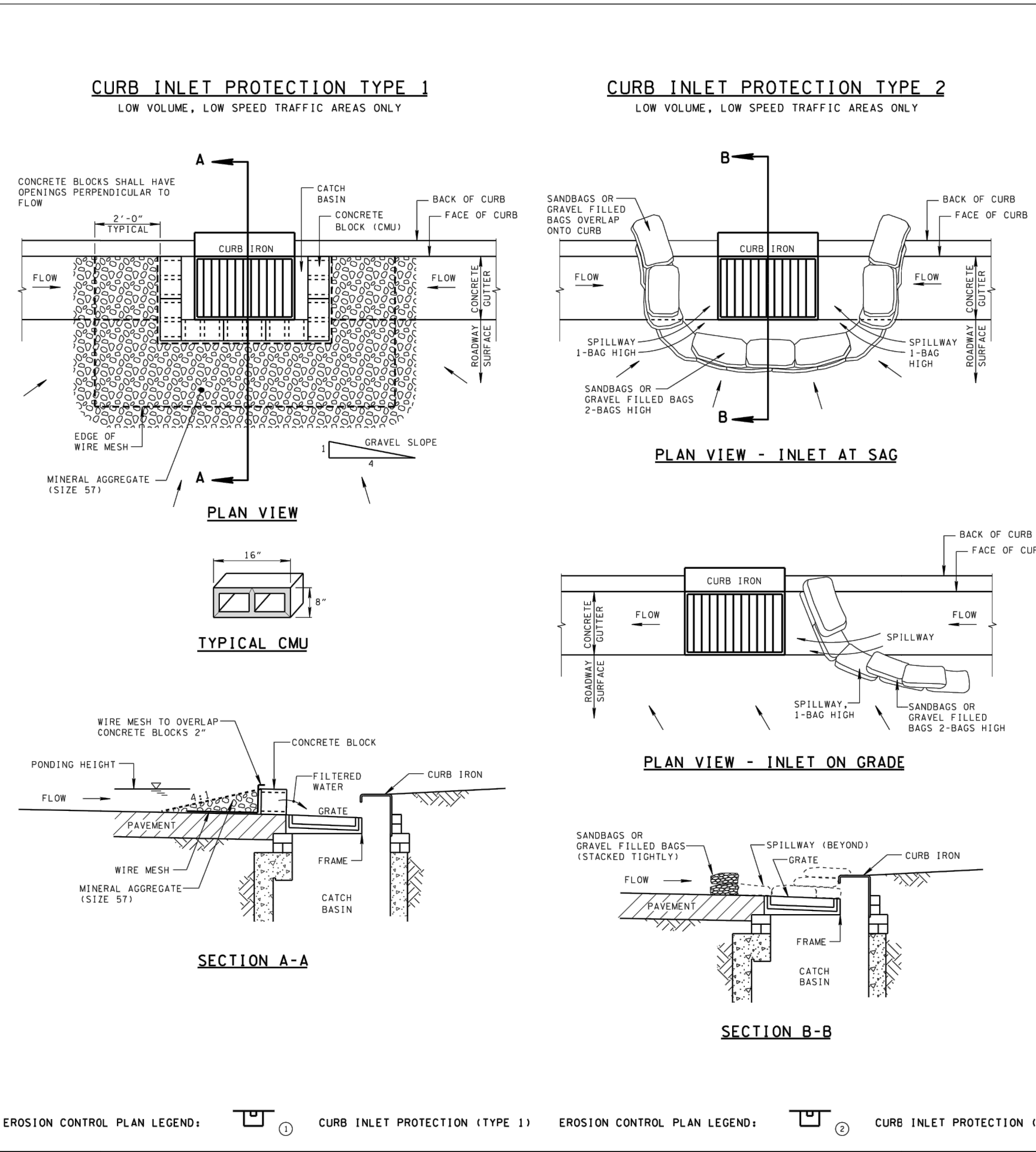
REV. 4-15-06: MISC. EDITS TO DRAWING, CHANGED DRAWING NAME, REFORMATTED SHEET.

MINOR REVISION - FIRM APPROVAL NOT REQUIRED

STATE OF TENNESSEE
TEMPORARY DRAWING
DEPARTMENT OF TRANSPORTATION

SILT FENCE FABRIC JOINING DETAILS

12-10-02 EC-STR-3E



CURB INLET PROTECTION TYPE 1 GENERAL NOTES

1. CURB INLET PROTECTION (TYPE 1) IS USED TO INTERCEPT SEDIMENT AND PREVENT SEDIMENT LADEN WATER FROM ENTERING STORM SEWER SYSTEMS. THIS DEVICE IS INTENDED AS A SECONDARY SEDIMENT CONTROL MEASURE. CURB INLET PROTECTION (TYPE 1) IS USED IN AREAS WHERE PONING IS NOT A CONCERN AND ADEQUATE AREA IS AVAILABLE FOR PONING.
2. MAXIMUM DRAINAGE AREA IS 1 ACRE.
3. CONCRETE BLOCKS SHALL BE PLACED LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET. THE ENDS OF ADJACENT BLOCKS SHOULD ABUT TIGHTLY TOGETHER.
4. ADDITIONAL BLOCKS WITH OPENINGS PERPENDICULAR TO FLOW MAY BE ACQUIRED DEPENDING ON AMOUNT OF FLOW AND AVAILABLE PONING AREA.
5. WIRE MESH SHALL BE 19 GAUGE GALVANIZED HARDWARE CLOTH WITH 1/4" INCH OPENINGS. WIRE SHALL BE SHAPED TO FIT SECURELY AGAINST CONCRETE BLOCK AND SHALL LAP OVER THE TOP OF THE BLOCK A MINIMUM OF 2 INCHES.
6. CURB INLET PROTECTION (TYPE 1) SHALL BE PAID FOR UNDER THE FOLLOWING ITEM NUMBER:
 - 209-09-40 CURB INLET PROTECTION (TYPE 1) PER EACH
 PAYMENT SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY FOR CONSTRUCTION, MAINTENANCE, AND REMOVAL OF CURB INLET PROTECTION (TYPE 1).
7. ANY PRODUCT LISTED ON THE QUALIFIED PRODUCTS LIST AS AN APPROVED ALTERNATE IS ALSO ACCEPTABLE.
8. MAINTENANCE SHALL BE PERFORMED AS NEEDED. FOR PROPER FUNCTION, SEDIMENT REMOVAL SHALL BE PERFORMED CONTINUOUSLY AND/OR AFTER EVERY RAIN EVENT AND PAID FOR UNDER ITEM NUMBER 209-05, SEDIMENT REMOVAL, PER CUBIC YARD.

MINOR REVISION - FIRM APPROVAL NOT REQUIRED

NOT TO SCALE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CURB INLET PROTECTION TYPE 1 & 2

1-20-06 EC-STR-39

CURB INLET PROTECTION TYPE 2 GENERAL NOTES

1. CURB INLET PROTECTION (TYPE 2) IS USED TO INTERCEPT SEDIMENT AND PREVENT SEDIMENT LADEN WATER FROM ENTERING STORM SEWER SYSTEMS. THIS DEVICE IS INTENDED AS A SECONDARY SEDIMENT CONTROL MEASURE. CURB INLET PROTECTION (TYPE 2) IS USED IN AREAS WHERE PONING IS NOT A CONCERN AND ADEQUATE AREA IS AVAILABLE FOR PONING.
2. MAXIMUM DRAINAGE AREA IS 1 ACRE.
3. MAXIMUM TOP OF SPILLWAY ELEVATION + TOP OF CURB ELEVATION MINUS 1 INCH.
4. BAGS SHALL BE MADE OF EITHER BURLAP OR GEOTEXTILE FABRIC AND FILLED WITH CLEAN MINERAL AGGREGATE (SIZE #7) OR SAND.
5. PACK SAND/GRAVEL FILLED BAGS TIGHTLY TOGETHER END TO END TO ENSURE NO SEDIMENT FLOWS BETWEEN OR UNDERNEATH THE BAGS. WHERE TIGHT FIT IS UNOBTAINABLE, INSTALL GEOTEXTILE FABRIC (TYPE 111) ALONG THE UPSTREAM FACE OF THE BAGS LAPPING OVER THE TOP BAGS 6 INCHES AND EXTENDING GEOTEXTILE FABRIC (TYPE 111) A MINIMUM OF 18 INCHES UPSTREAM OF THE BAGS. COVER GEOTEXTILE FABRIC (TYPE 111) WITH MINERAL AGGREGATE (SIZE #7) STONE WEDGE TO THE TOP OF THE BAGS.
6. ONLY GEOTEXTILE FABRIC (TYPE 111) LISTED ON THE QUALIFIED PRODUCTS LIST SHALL BE USED.
7. AN OVERFLOW SPILLWAY SHALL BE PROVIDED BY LEAVING AN OPENING OF ONE SAND OR GRAVEL BAG WIDE AND HIGH AS SHOWN. STORMS GREATER THAN 2-YEAR, 24 HOUR STORM SHOULD NOT OVERTOP THE CURB.
8. CURB INLET PROTECTION (TYPE 2) SHALL BE PAID FOR UNDER THE FOLLOWING ITEM NUMBER:
 - 209-09-41 CURB INLET PROTECTION (TYPE 2) PER EACH
 PAYMENT SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY FOR CONSTRUCTION, MAINTENANCE, AND REMOVAL OF CURB INLET PROTECTION (TYPE 2).
9. ANY PRODUCT LISTED ON THE QUALIFIED PRODUCTS LIST AS AN APPROVED ALTERNATE IS ALSO ACCEPTABLE.
10. MAINTENANCE SHALL BE PERFORMED AS NEEDED. FOR PROPER FUNCTION SEDIMENT REMOVAL SHALL BE PERFORMED CONTINUOUSLY AND/OR AFTER EVERY RAIN EVENT AND PAID FOR UNDER ITEM NUMBER 209-05, SEDIMENT REMOVAL, PER CUBIC YARD.

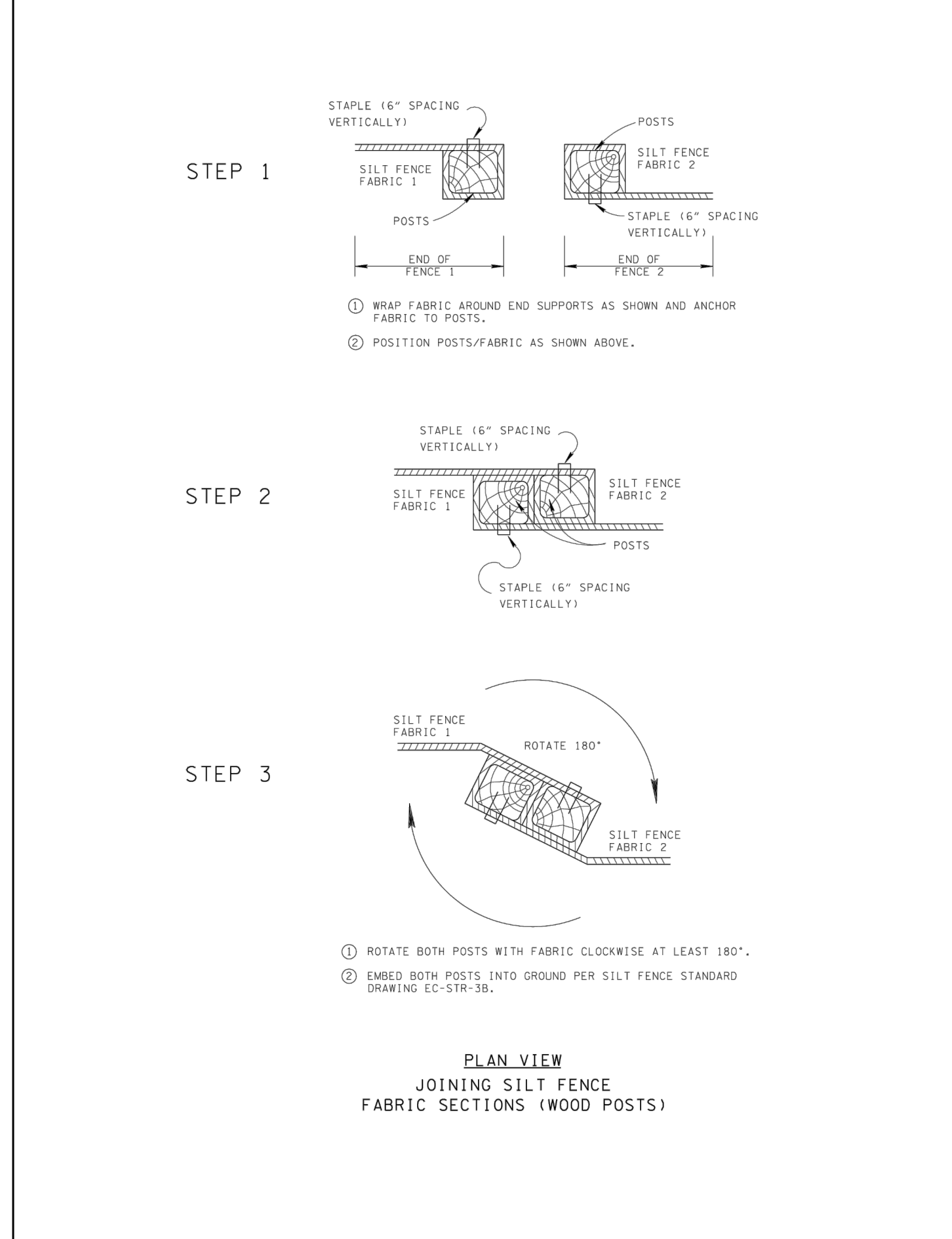
MINOR REVISION - FIRM APPROVAL NOT REQUIRED

NOT TO SCALE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CURB INLET PROTECTION TYPE 1 & 2

1-20-06 EC-STR-39



REV. 10-18-02: MODIFIED TABLE 2 AND GENERAL NOTE (1)

REV. 10-18-04: CHANGED VALUES IN TABLE 2 FROM MARY TO MARY VALUES

REV. 4-15-06: MODIFIED FABRIC HEIGHT AND WIDTH (MAX. 50' HORIZONTAL TIE). REFORMATTED GENERAL NOTES. REFORMATTED SHEET. REVISED NOTES. MISC. EDITS TO DRAWING.

REV. 4-15-06: MINOR EDITS TO GENERAL NOTES.

REV. 8-1-12: MINOR EDITS TO GENERAL NOTES.

REV. 4-15-06: REFORMATTED SHEET, REVISED NOTES, MISC. EDITS TO DRAWING.

REV. 4-15-06: MISC. EDITS TO DRAWING, CHANGED DRAWING NAME, REFORMATTED SHEET.

MINOR REVISION - FIRM APPROVAL NOT REQUIRED

STATE OF TENNESSEE
TEMPORARY DRAWING
DEPARTMENT OF TRANSPORTATION

SILT FENCE FABRIC JOINING DETAILS

12-10-02 EC-STR-3E

EROSION CONTROL NOTES:

1. EROSION AND SEDIMENT CONTROL MEASURES SHOWN ARE CONSIDERED TO BE THE MINIMUM ACCEPTABLE MEASURES. THE CONTRACTOR SHALL UTILIZE "BEST MANAGEMENT PRACTICES" AS NECESSARY TO PREVENT SEDIMENT LADEN STORMWATER RUNOFF OR ERODED MATERIALS FROM LEAVING THE CONSTRUCTION SITE. THE CONTRACTOR SHALL MAINTAIN AND REPAIR EROSION CONTROL MEASURES AFTER EACH RAINFALL EVENT AND INSPECT THEM TWICE WEEKLY IN THE EVENT OF NO RAINFALL. BEST MANAGEMENT PRACTICES (BMPs) ARE DEFINED AS: SCHEDULES OF ACTIVITIES, PROHIBITIONS OF PRACTICES, MAINTENANCE PROCEDURES, AND OTHER MANAGEMENT PRACTICES TO PREVENT OR REDUCE THE POLLUTION OF WATERS OF THE UNITED STATES. BMPs ALSO INCLUDE TREATMENT REQUIREMENTS, OPERATING PROCEDURES, AND PRACTICES TO CONTROL SITE RUNOFF, SPILLAGE OR LEAKS, SLUDGE OR WASTE DISPOSAL, OR DRAINAGE FROM RAW MATERIAL STORAGE. WITH REGARD TO CONSTRUCTION THESE MAY INCLUDE STRUCTURAL DEVICES OR NONSTRUCTURAL PRACTICES THAT ARE DESIGNED TO PREVENT POLLUTANTS FROM ENTERING WATER OR TO DIRECT THE FLOW OF WATER.
2. SILT FENCE WITH WIRE BACKING SHALL BE USED IN AREAS WHERE INDICATED OR AS DIRECTED BY THE ENGINEER.
3. SILT FENCES ARE TEMPORARY SEDIMENT CONTROL ITEMS THAT SHALL BE ERRECTED OPPOSITE ERODIBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
4. SILT FENCES SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION OPERATION. SILT FENCES SHALL BE CLEANED, SILT REMOVED, AND REPAIRED AS NECESSARY AS PART OF REQUIRED BMP MAINTENANCE.
5. AFTER THE CONSTRUCTION AREA IS STABILIZED BY PAVING OR A FIRM STAND OF GRASS AND EROSION ACTIVITY CURTAILED, SILT FENCES SHALL BE REMOVED.
6. STORM DRAIN INLETS SHALL BE PROTECTED FROM SEDIMENT ENTRY WITH SEDIMENT BARRIERS LIKE FABRIC DROP INLET PROTECTION OR WATTLES UNTIL THE SITE IS STABILIZED BY PAVING OR A FIRM STAND OF GRASS IS OBTAINED.
7. CONTRACTOR IS REQUIRED TO STABILIZE DISTURBED AREAS WITH TEMPORARY GRASS OR SOIL STABILIZER IF AREAS WILL REMAIN DISTURBED FOR 14 DAYS OR LONGER.
8. THE CONTRACTOR IS HEREBY DIRECTED TO PROVIDE SEDIMENT RUNOFF PROTECTION WHERE NECESSARY TO PREVENT SILT LADEN RUNOFF FROM ENTERING THE STREAMS NEAR THE PROPOSED PROJECT.
9. GRASS GROUND COVER SHALL BE MAINTAINED UPON COMPLETION OF CONSTRUCTION.
10. THE EROSION AND SEDIMENT CONTROL ITEMS SHOWN ON THE PLANS ARE PROVIDED AS A STARTING POINT FOR A COMPREHENSIVE SEDIMENT AND EROSION CONTROL PLAN TO BE IMPLEMENTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL BE PREPARED TO ANTICIPATE AND ADJUST BEST MANAGEMENT PRACTICES AS NECESSARY THROUGHOUT CONSTRUCTION TO RESTRICT THE AMOUNT OF SILT LADEN RUNOFF LEAVING THE PROJECT.
11. SEDIMENT & EROSION CONTROL ITEMS SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE FOLLOWING HANDBOOKS:
 - A.) TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK
 - B.) EPA STORM WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES.
 - C.) EPA GUIDANCE SPECIFYING MANAGEMENT MEASURES FOR SOURCES OF NON-POINT POLLUTION IN COASTAL WATERS.
 - D.) AASHTO GUIDELINES FOR EROSION AND SEDIMENT CONTROL IN HIGHWAY CONSTRUCTION.

CONSTRUCTION PHASE SEQUENCE:

PHASE ONE

- INSTALL INLET PROTECTION
- SAWCUT AND REMOVE ASPHALT AS NEEDED TO INSTALL SILT FENCE
- REMOVE REMAINING ASPHALT AND CURB IN DEMOLITION AREA AS NEEDED AS CONSTRUCTION PROGRESSES

PHASE TWO

- GRADE TO ROUGH GRADES

PHASE THREE

- CONSTRUCT UTILITIES (WATER, SEWER, GAS, COMMUNICATIONS AND ELECTRIC)

PHASE FOUR

- CONSTRUCT ROADS AND PARKING (PAVING & SIDEWALKS)
- CONSTRUCT BUILDING

PHASE FIVE

- STABILIZE DISTURBED AREAS

PHASE SIX

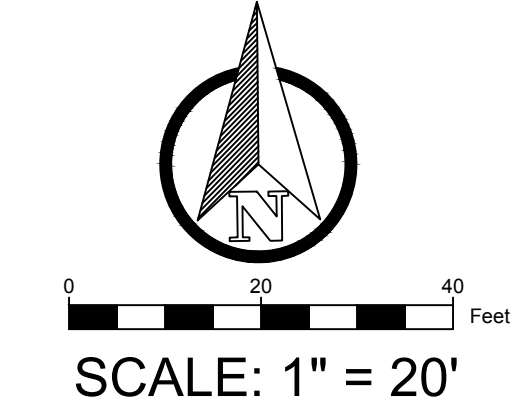
- REMOVE BMP MEASURES

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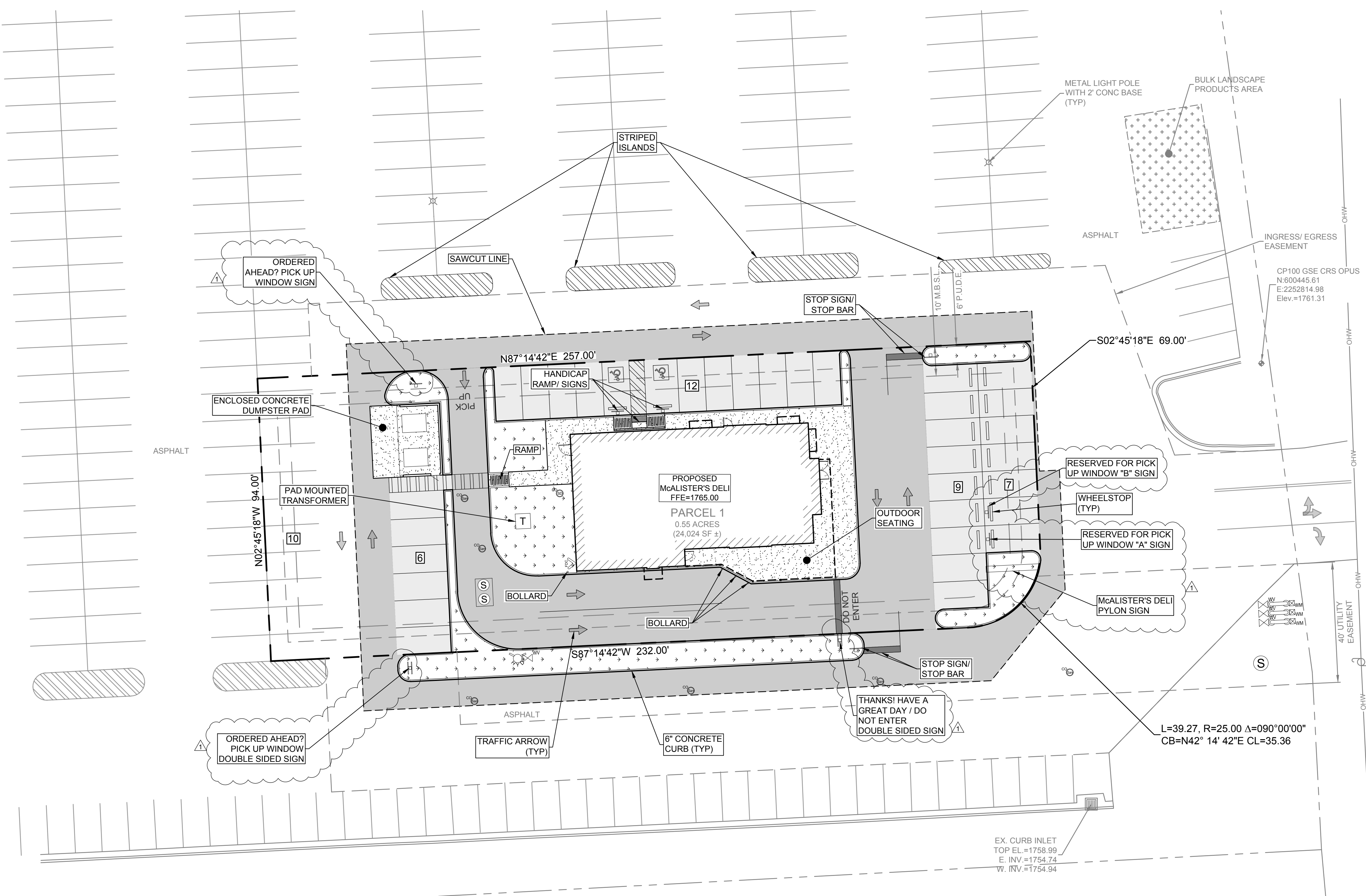
GSE
Gulf States Engineering, Inc.
176 Thompson Lane #200, Nashville, TN 615.933.7888(T)



VICINITY MAP



- LEGEND:**
- PROPERTY LINE
 - ADJACENT PROPERTY LINE
 - CENTERLINE
 - EASEMENT
 - WATER LINE
 - SAN SANITARY SEWER
 - UC UNDERGROUND COMM.
 - FO FIBER OPTIC
 - UP UNDERGROUND POWER
 - OHW OVERHEAD WIRES
 - STORM DRAIN
 - 45° EX. INDEX CONTOUR
 - 44° EX. INTERMEDIATE CONTOUR
 - +10.00 EX. SPOT ELEVATION
 - 45 INDEX CONTOUR
 - 44 INTERMEDIATE CONTOUR
 - 48.35 PROPOSED ELEVATION
 - M.E. MATCH EXISTING DRAINAGE FLOW
 - (A) ACTUAL BEARINGS AND DISTANCES
 - (R) BEARINGS AND DISTANCE OF RECORD
 - (P) INFORMATION PER PLAT
 - ⊗ LIGHT POLE
 - ⊕ POWER POLE
 - ⊙ GUY ANCHOR
 - ⊞ SIGN
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 - ⊞ FIBER OPTIC BOX
 - ⊞ TELEPHONE BOX
 - ⊞ WATER METER
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 - ⊞ IRON PIPE FOUND
 - ⊞ IRON ROD FOUND
 - ⊞ CAPPED REBAR FOUND
 - ⊞ OPEN TOP PIPE FOUND
 - ⊞ CAPPED REBAR SET
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 - ⊞ HANDICAP PARKING SPACE
 - CONCRETE SURFACE
 - HEAVY DUTY ASPHALT
 - STANDARD DUTY ASPHALT
 - LANDSCAPED AREA
 - DEMOLITION (TO BE REMOVED)



DESCRIPTION:

BEING A TRACT OF LAND LYING IN CROSSVILLE, CUMBERLAND COUNTY, TENNESSEE, BEING A PORTION OF THE LOWES INVESTMENT CORP PROPERTY, ALSO KNOWN AS CUMBERLAND COUNTY TAX MAP 087, PARCEL 051.14 EVIDENCED BY DEED OF RECORD IN BOOK 10, PAGE 170, REGISTERS OFFICE CUMBERLAND COUNTY TENNESSEE, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF LOWES INVESTMENT CORP PROPERTY AND THE WESTERLY RIGHT-OF-WAY OF NORTH MAIN STREET (PUBLIC R/W VARIES); THENCE ALONG THE EAST LINE OF SAID PARCEL, NORTH 02°57'54" WEST, A DISTANCE OF 59.00 FEET; THENCE CONTINUING ALONG THE EASTERLY LINE OF THE LOWES INVESTMENT CORP PROPERTY AND ALONG THE WESTERLY RIGHT-OF-WAY LINE OF NORTH MAIN STREET, NORTH 07°51'54" WEST, A DISTANCE OF 121.75 FEET; THENCE DEPARTING THE EAST PROPERTY LINE OF LOWES INVESTMENT CORP AND THE EASTERLY RIGHT-OF-WAY LINE OF NORTH MAIN STREET, THENCE SOUTH 82°08'06" WEST, A DISTANCE OF 77.76 FEET TO A FOUND PK NAIL AND DISK AND THE POINT OF BEGINNING;

THENCE SOUTH 02°45'18" EAST, A DISTANCE OF 69.00 FEET TO A FOUND PK NAIL WITH TAG; THENCE WITH A CURVE TO THE RIGHT, HAVING A RADIUS OF 25.00 FEET, A CENTRAL ANGLE OF 90°00'00", AN ARC LENGTH OF 39.27 FEET, AND A CHORD BEARING AND DISTANCE OF SOUTH 42°14'42" WEST, A DISTANCE OF 35.36 FEET TO A FOUND PK NAIL WITH TAG; THENCE SOUTH 87°14'42" WEST, A DISTANCE OF 232.00 FEET TO A FOUND PK NAIL WITH TAG; THENCE NORTH 02°45'18" WEST, A DISTANCE OF 94.00 FEET TO A FOUND PK NAIL WITH TAG; THENCE NORTH 87°14'42" EAST, A DISTANCE OF 257.00 FEET TO THE POINT OF BEGINNING.

BEING THE SAME PROPERTY CONVEYED TO LOWES INVESTMENT CORPORATION BY WARRANTY DEED FROM BLENDA S. BURGIN, TRUSTEE OF RECORD IN DEED BOOK D349, PAGE 182, REGISTER'S OFFICE FOR CUMBERLAND COUNTY, TENNESSEE, DATED DECEMBER 15, 1987 AND RECORDED ON DECEMBER 16, 1987.

SAID PARCEL CONTAINS 24,024 SQUARE FEET, OR 0.55 ACRES MORE OR LESS.

FLOOD ZONE:

THE SURVEYED AREA LIES WITHIN FLOOD ZONE X (UNSHADED), ACCORDING TO FEMA FLOOD INSURANCE RATE MAP PANEL NO. 47035C0306D, DATED 11/16/2007. ZONE X IS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

SITE DATA:

JURISDICTION: CROSSVILLE, TN
ZONING - N/A

SITE AREA - 0.55 ACRES (24,024 SF ±)

PARKING:

PROVIDED: 42 REGULAR PARKING SPACES
2 HANDICAP SPACES (INC. 1 VAN SPACE)
44 TOTAL

PROPOSED SITE CALCULATIONS:

- 3,429 S.F. BUILDING
- 18,470 S.F. PAVING (CONCRETE & ASPHALT)
- 2,125 S.F. (0.05 ACRES) LANDSCAPED AREA (9 % OF TOTAL)

NOTE:

SEE HORIZONTAL CONTROL PLAN FOR ALL DIMENSIONS

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Building Shell | McAlister's Deli
N. Main Street
Crossville, Tennessee 38555

PROJECT # 1209.0422A

ISSUED FOR PERMIT REV 0
ADDED SIGNS REV 1

02.17.23
03.02.23



03/02/23

Angela Marie
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SHEET:

C2.0
CIVIL SITE PLAN

FOR PERMITTING ONLY



176 Thompson Lane #200, Nashville, TN 615.933.7888(T)



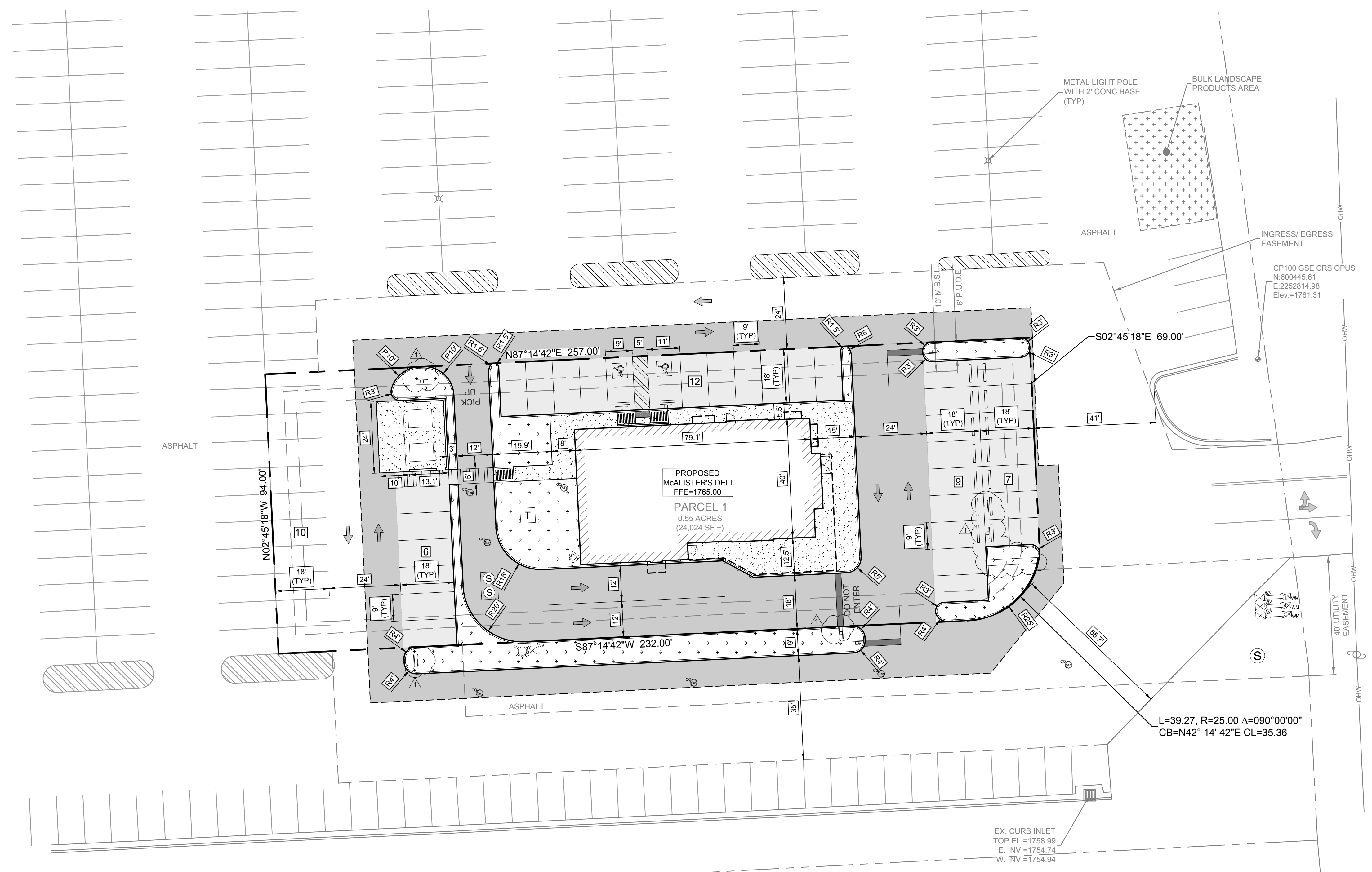
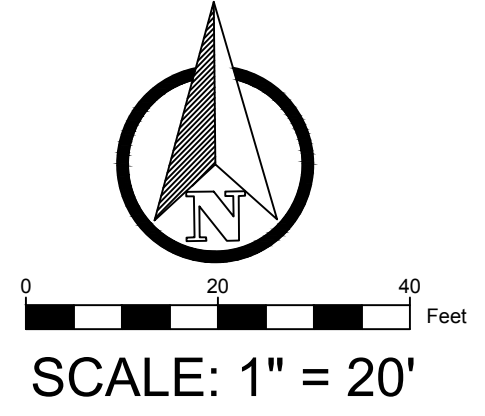
LEGEND:

- PROPERTY LINE
- - - ADJACENT PROPERTY LINE
- CENTERLINE
- EASEMENT
- WATER LINE
- - - SAN - SANITARY SEWER
- - - UC - UNDERGROUND COMM.
- - - FO - FIBER OPTIC
- - - UP - UNDERGROUND POWER
- - - OHW - OVERHEAD WIRES
- - - STORM DRAIN
- - - 45° - EX. INDEX CONTOUR
- - - 44° - EX. INTERMEDIATE CONTOUR
- + 10.00 EX. SPOT ELEVATION
- 45 INDEX CONTOUR
- 44 INTERMEDIATE CONTOUR
- 48.35 PROPOSED ELEVATION
- M.E. MATCH EXISTING DRAINAGE FLOW
- (A) ACTUAL BEARINGS AND DISTANCES BEARINGS AND DISTANCE OF RECORD INFORMATION PER PLAT
- △ LIGHT POLE
- △ POWER POLE
- △ GUY ANCHOR
- △ SIGN
- ELECTRICAL BOX
- FIBER OPTIC BOX
- TELEPHONE BOX
- WATER METER
- X^W WATER VALVE

- ⊘ BACKFLOW PREVENTER
- ⊘ FIRE HYDRANT
- ⊘ STORM DRAINAGE MANHOLE
- ⊘ DRAINAGE INLET
- ⊘ STORM DRAIN CLEANOUT
- ⊘ SANITARY MANHOLE
- ⊘ SANITARY CLEANOUT
- ⊘ BENCHMARK
- △_{IPF} IRON PIPE FOUND
- △_{IRF} IRON ROD FOUND
- △_{CRF} CAPPED REBAR FOUND
- △_{OTF} OPEN TOP PIPE FOUND
- _{CRS} CAPPED REBAR SET
- _{PKS} PK NAIL SET
- ♿ HANDICAP PARKING SPACE
- CONCRETE SURFACE
- HEAVY DUTY ASPHALT
- STANDARD DUTY ASPHALT
- LANDSCAPED AREA
- DEMOLITION (TO BE REMOVED)

CONSTRUCTION NOTES:

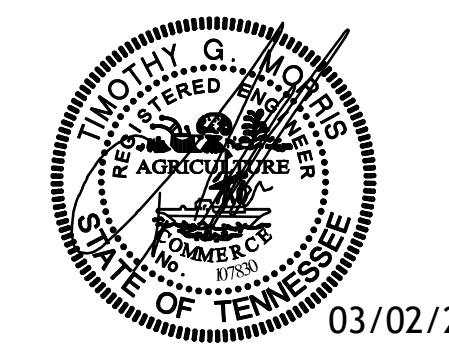
1. ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE SPECIFIED.
2. IN THE CASE OF DIMENSIONAL DISCREPANCY BETWEEN THE STRUCTURAL PLANS AND THE CIVIL DRAWINGS THE STRUCTURAL PLANS SUPERCEDE.
3. ALL DRIVE LANES SHOWN HEREON SHALL ADHERE TO THE HEAVY DUTY ASPHALT PAVEMENT SECTION (SEE DETAIL 2, C5.0); ALL PARKING AREAS SHOWN HEREON SHALL ADHERE TO THE LIGHT DUTY ASPHALT PAVEMENT SECTION (SEE DETAIL 1, C5.0).



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SHEET:

C2.1

HORIZONTAL CONTROL PLAN

FOR PERMITTING ONLY





LEGEND:

- PROPERTY LINE
- - - ADJACENT PROPERTY LINE
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- EASEMENT
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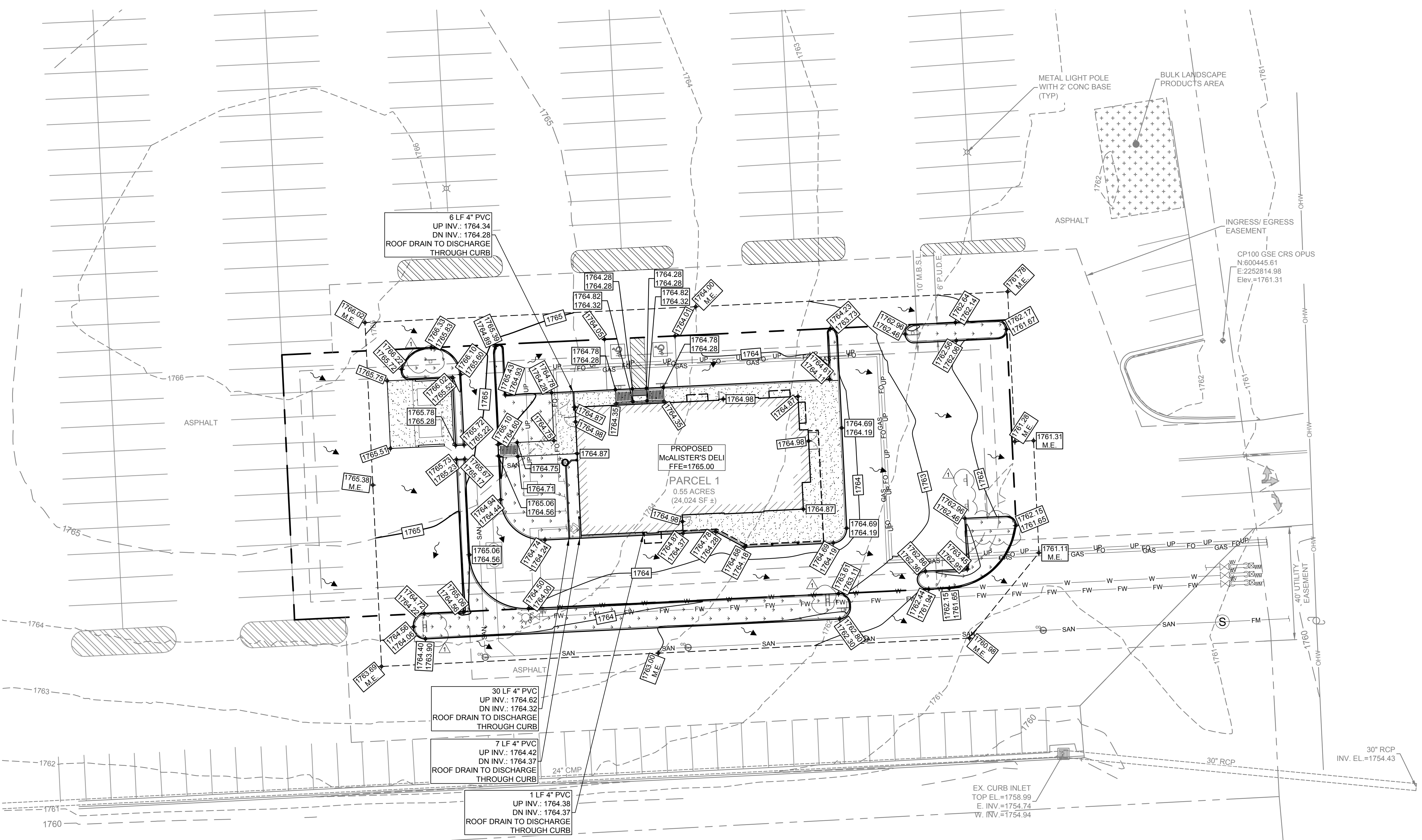
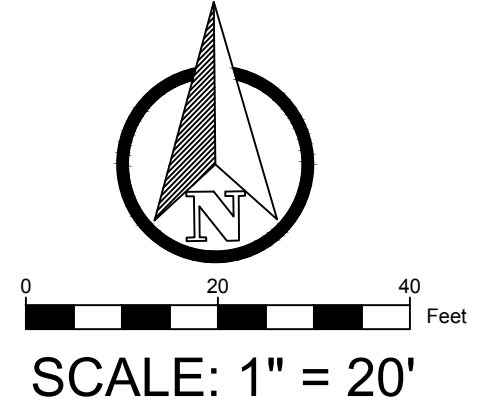
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- CONCRETE SURFACE
- HEAVY DUTY ASPHALT
- STANDARD DUTY ASPHALT
- LANDSCAPED AREA
- DEMOLITION (TO BE REMOVED)

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL PROVIDE TO THE PROJECT ENGINEER "AS-BUILT" RECORD DRAWINGS FOR VERIFICATION AND APPROVAL ONE WEEK PRIOR TO REQUESTING A FINAL INSPECTION.
2. THE CONTRACTOR SHALL CONTROL STORMWATER DURING ALL PHASES OF CONSTRUCTION AND TAKE ADEQUATE MEASURES TO PREVENT SEDIMENT WASH OVER THE EXISTING PARKING AREAS OR BUILDUP IN THE EXISTING PROTECTED DRAINAGE FEATURES.
3. THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS DURING CONSTRUCTION WHICH SHOW "AS-BUILT" CONDITIONS OF ALL WORK INCLUDING PIPING, DRAINAGE STRUCTURES, TOPO OF OUTLET STRUCTURES, DIMENSIONS, ELEVATIONS, GRADING, ETC.
4. ALL ASPECTS OF THE STORMWATER/DRAINAGE COMPONENTS AND/OR TRANSPORTATION COMPONENTS SHALL BE COMPLETED PRIOR TO ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY.
5. DISTURBED AREAS NOT SHOWN TO BE SODDED OR PAVED SHALL BE SEEDED, MULCHED & FERTILIZED.
6. CROSS SLOPE ON CONCRETE WALKS & HANDICAP PARKING SPACES SHALL NOT EXCEED 1.75%.
7. ALL DRIVE LANES SHOWN HEREON SHALL ADHERE TO THE HEAVY DUTY ASPHALT PAVEMENT SECTION (SEE DETAIL 2, C5.0). ALL PARKING AREAS SHOWN HEREON SHALL ADHERE TO THE LIGHT DUTY ASPHALT PAVEMENT SECTION (SEE DETAIL 1, C5.0).

PRE-DEVELOPMENT VS POST-DEVELOPMENT SITE DATA *				
Site	Site Area (sf)	Pervious Areas (sf)	Impervious Areas (sf)	Impervious Areas (%)
Pre-Development	24,024	671	23,353	97.21%
Post-Development	24,024	2,125	21,899	91.16%

*SINCE POST-DEVELOPMENT IMPERVIOUS AREA HAS BEEN REDUCED, THE FLOW TO THE EXISTING LOWE'S POND WILL BE REDUCED. NO NEW DRAINAGE STRUCTURES OR STORAGE PONDS HAVE BEEN DESIGNED.



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SHEET:

C3.0
GRADING AND
DRAINAGE PLAN

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LEGEND:

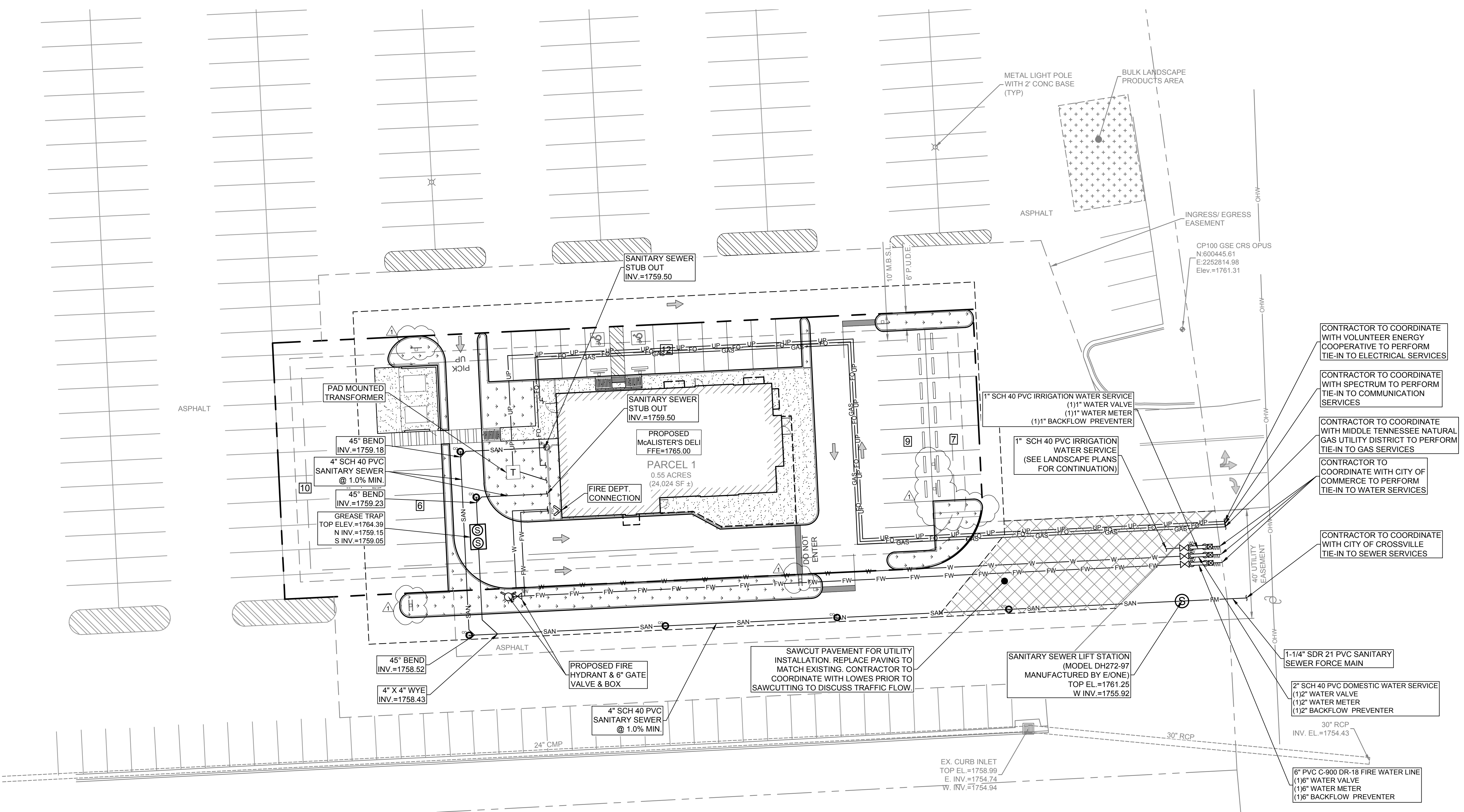
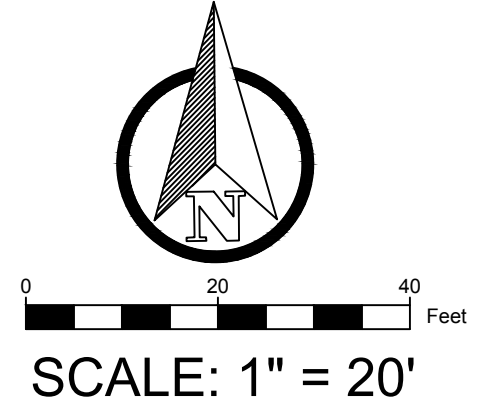
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- STANDARD DUTY ASPHALT
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- DEMOLITION (TO BE REMOVED)

CONSTRUCTION NOTES:

1. SEE SHEET C5.0 FOR SITE/CONSTRUCTION NOTES.
2. CONTRACTOR SHALL HAND EXCAVATE TO EXPOSE EXISTING UTILITIES AT ALL CONNECTION POINTS AND ANY LOCATION WHERE A PROPOSED UTILITY LINE CROSSES AN EXISTING UTILITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UTILITIES MARKED PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
3. ALL UNDERGROUND UTILITIES TO BE BURIED AT A MIN. DEPTH OF 36" AND INCLUDE TRACER WIRE BURIED AT HALF DEPTH UNLESS OTHERWISE SPECIFIED.
4. ALL VALVES AND BACKFLOW PREVENTERS SHALL INCLUDE APPROPRIATELY SIZED VAULTS, RISERS OR COVERS AS THE FINISH SURFACE REQUIRES.
5. ALL CLEANOUTS SHALL BE CAPPED AT 2" ABOVE FINAL FINISH GRADE, EXCEPT WHEN LOCATED IN PAVED SURFACES.
6. THE PLANS SHOWN HEREON SHALL BE COORDINATED WITH THE PLUMBING PLANS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES TO BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION PRIOR TO CONSTRUCTION.

UTILITY PROVIDERS	
COMMUNICATIONS	SPECTRUM (855) 243-8892
GAS	MIDDLE TENNESSEE NATURAL GAS UTILITY DISTRICT (931) 484-2067
ELECTRIC	VOLUNTEER ENERGY COOPERATIVE (931) 484-3527
WATER	CITY OF CROSSVILLE (931) 484-5113
SEWER	CITY OF CROSSVILLE (931) 484-5113



- CONTRACTOR TO COORDINATE WITH VOLUNTEER ENERGY COOPERATIVE TO PERFORM TIE-IN TO ELECTRICAL SERVICES
- CONTRACTOR TO COORDINATE WITH SPECTRUM TO PERFORM TIE-IN TO COMMUNICATION SERVICES
- CONTRACTOR TO COORDINATE WITH MIDDLE TENNESSEE NATURAL GAS UTILITY DISTRICT TO PERFORM TIE-IN TO GAS SERVICES
- CONTRACTOR TO COORDINATE WITH CITY OF COMMERCE TO PERFORM TIE-IN TO WATER SERVICES
- CONTRACTOR TO COORDINATE WITH CITY OF CROSSVILLE TIE-IN TO SEWER SERVICES

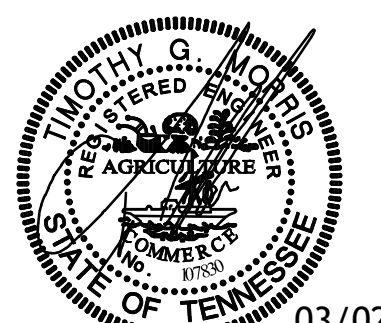
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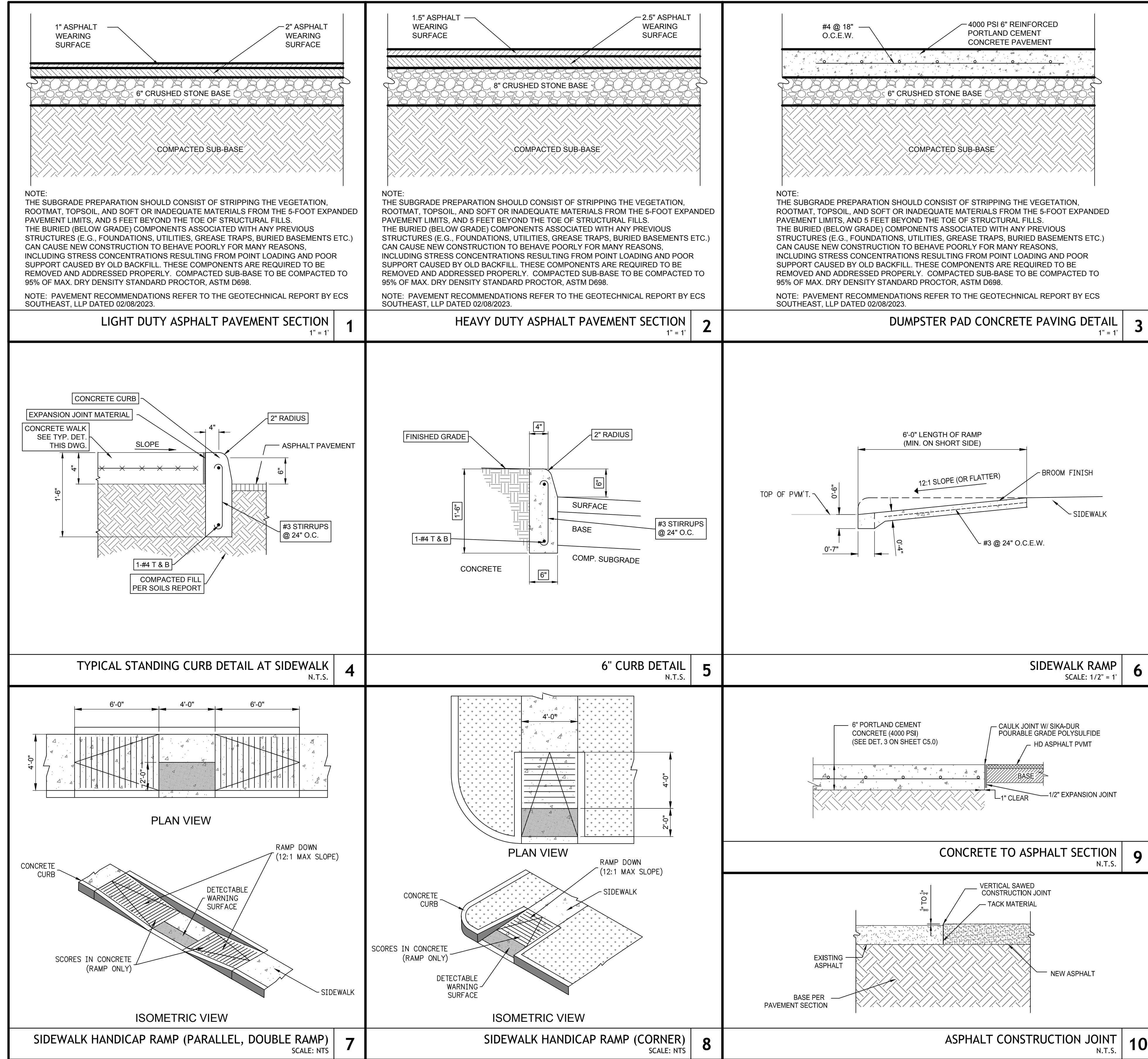


SHEET:

C4.0
 SITE UTILITIES PLAN

SITE/CONSTRUCTION NOTES:

- THE CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS PRIOR TO CONSTRUCTION OR FABRICATION.
 - THE CIVIL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND ANY APPLICABLE SPECIFICATIONS.
 - THE WORD OF THE ENGINEER AND/OR INSPECTOR SHALL BE FINAL IN ANY MATTER.
 - SUBGRADE AND BASE SHALL BE COMPACTED TO THE REQUIREMENTS SET FORTH IN THE GEOTECHNICAL REPORT BY ECS SOUTHEAST, LLP DATED FEBRUARY 8, 2023.
 - ALL FILL AND EMBANKMENT CONSTRUCTION SHALL BE COMPACTED AS REQUIRED IN LAYERS NOT TO EXCEED 8" UNLESS SPECIFIED OTHERWISE IN A GEOTECHNICAL REPORT BY ECS SOUTHEAST, LLP DATED FEBRUARY 8, 2023 FOR THIS PROJECT.
 - ALL EXCESS UNCLASSIFIED EXCAVATION IS TO BE UTILIZED FOR CONSTRUCTION OF EMBANKMENTS AND SLOPES NOT DIRECTLY UNDER THE TRAVEL WAY OR PARKING AREAS PRIOR TO USING ANY OFFSITE BORROW EXCAVATION. AFTER CONSTRUCTION OF SUCH AREAS IS COMPLETED, EXCESS EXCAVATION SHALL BE SPREAD AS DIRECTED BY THE ENGINEER, OR AT THE ENGINEER'S DIRECTION, HAULED FROM THE SITE AT NO ADDITIONAL COST.
 - THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL STATE, LOCAL AND FEDERAL LAWS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL OF THESE LAWS AND REGULATIONS HAVE BEEN MET.
 - THE CONTRACTOR SHALL NOTIFY GULF STATES ENGINEERING AND ANY LOCAL JURISDICTIONAL INSPECTOR FOR APPROVAL 48 HOURS BEFORE THE BEGINNING OF ANY SUBSEQUENT PHASE OF CONSTRUCTION.
 - THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER OF ANY DISCREPANCIES OR ERRORS DISCOVERED IN THE PLANS.
 - THE CONTRACTOR IS REQUIRED TO COORDINATE WITH THE TENNESSEE ONE-CALL LINE LOCATE CENTER (811) FOR MARKING OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL RENEW CONFIRMATION NUMBERS AS OFTEN AS REQUIRED DURING THE DURATION OF THE PROJECT. THE CURRENT CONFIRMATION NUMBER SHALL BE ON THE PROJECT SITE AT ALL TIMES. THE ENGINEER HAS DILIGENTLY ATTEMPTED TO LOCATE AND INDICATE ALL EXISTING FACILITIES ON THESE PLANS. HOWEVER, THIS INFORMATION IS SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF UTILITIES SHOWN OR NOT SHOWN. THE CONTRACTOR IS TO CONTACT THE UTILITY COMPANIES FOR EXACT LOCATION OF THEIR UTILITIES PRIOR TO STARTING CONSTRUCTION. ANY AND ALL DAMAGE MADE TO UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND REPLACE.
 - THE CONTRACTOR SHALL EMPLOY ALL NECESSARY MEASURES TO ENSURE THAT THE PROJECT IS OSHA COMPLIANT.
 - ANY EXCESS MATERIAL FROM CONSTRUCTION ACTIVITIES SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE BEDDING AND HAUNCHING FOR ALL IMPROVEMENTS. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROPER COMPACTION ON ANY AND ALL UTILITY DITCHES.
 - THE CONTRACTOR SHALL REPLACE ANY FAULTY OR IMPROPERLY INSTALLED IMPROVEMENTS AT HIS EXPENSE.
 - THE CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT PROPER CONSENT.
 - THE CONTRACTOR SHALL STRICTLY FOLLOW THE LOCAL AUTHORITIES AND/OR THE GEOTECHNICAL REPORT FOR ALL GRADING, UNDERCUTTING, BACKFILLING, AND PAVING REQUIREMENTS. ALL RESPECTIVE TASKS SHALL BE APPROVED BY RESPONSIBLE INSPECTOR PRIOR TO ACCEPTANCE.
 - THE CONTRACTOR WILL ENSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED, REMOVED OR REGRADED AS REQUIRED BY THE ENGINEER.
 - ALL GRAVITY PIPES SHALL BE LAID ON SMOOTH CONTINUOUS GRADES WITH NO DETECTABLE BENDS AT JOINTS.
 - THE CONTRACTOR SHALL PROVIDE ANY EXCAVATION AND MATERIAL SAMPLES NECESSARY TO CONDUCT REQUIRED SOIL AND CONCRETE TESTS. ALL ARRANGEMENTS AND SCHEDULING FOR THE TESTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
 - FILTER BLANKET USED WITH RIPRAP SHALL BE A NON-WOVEN GEOTEXTILE.
 - ALL PIPE END TREATMENTS SHALL INCLUDE A TOE WALL AT LEAST 1.5 FEET DEEP AND 8 INCHES THICK UNLESS CONNECTED TO A CONCRETE DITCH SECTION OR A BEVELED END SECTION IS SPECIFIED.
 - LINEAR FOOTAGE OF STORM DRAIN PIPES SHOWN ON PLAN SHEETS INCLUDES SLOPED PAVED HEADWALL, IF APPLICABLE.
 - BEDDING & HAUNCHING: BEDDING & HAUNCHING MATERIALS FOR PVC & HDPE PIPE SHALL BE CRUSHED STONE. WHERE CRUSHED STONE HAS BEEN UTILIZED FOR TRENCH FOUNDATION, THE SAME MATERIAL SHALL BE USED FOR BEDDING AND HAUNCHING REGARDLESS OF PIPE TYPE. CRUSHED STONE SHALL CONFORM TO THE LATEST REVISION OF ASTM C 33, AS AMENDED TO DATE, GRADATION #57 (ASTM #57) VARYING IN SIZES 1/4" THROUGH 3/4" AND SELECT EARTH MATERIALS FOR BEDDING AND HAUNCHING SHALL BE AS SPECIFIED FOR INITIAL BACKFILL.
- BACKFILL: INITIAL BACKFILL MATERIAL SHALL BE SELECT EARTH MATERIALS OR CRUSHED STONE AS SPECIFIED FOR BEDDING AND HAUNCHING MATERIALS. SELECT BACKFILL MATERIALS SHALL CONSIST OF FINELY DIVIDED EARTH, STONE, DUST, SAND, CRUSHED STONE, OR OTHER APPROVED MATERIAL CAREFULLY PLACED ABOUT THE PIPE IN UNIFORM SUCCEEDING LAYERS NOT EXCEEDING SIX (6) INCHES IN THICKNESS. EACH LAYER SHALL BE UNIFORMLY PLACED AND TAMPED WITH PROPER HAND TOOLS IN A MANNER WHICH WILL NOT DISTURB OR INJURE THE PIPE. BACKFILLING SHALL BE CARRIED ON SIMULTANEOUSLY ON BOTH SIDES OF THE PIPE IN A MANNER WHICH WILL PREVENT INJURIOUS SIDE PRESSURES FROM OCCURRING. IF SUITABLE SELECT MATERIALS ARE NOT AVAILABLE FROM TRENCH EXCAVATION, THE CONTRACTOR WILL BE REQUIRED TO OBTAIN THEM ELSEWHERE. EARTH MATERIALS UTILIZED FOR INITIAL BACKFILL SHALL BE SUITABLE MATERIALS SELECTED FROM MATERIALS EXCAVATED FROM THE TRENCH. SUITABLE MATERIALS SHALL BE CLEAN AND FREE OF ROCK LARGER THAN 2-INCHES AT ITS LARGEST DIMENSION, ORGANICS, CONCRETES, STUMPS, LIMBS, FROZEN EARTH OR MUD, MAN-MADE WASTES AND OTHER UNSUITABLE MATERIALS. SHOULD THE MATERIAL EXCAVATED FROM THE TRENCH BE SATURATED, THE SATURATED MATERIAL MAY BE USED AS EARTH MATERIAL, PROVIDED IT IS ALLOWED TO DRY PROPERLY AND IT IS CAPABLE OF MEETING THE SPECIFIED COMPACTION REQUIREMENTS. WHEN NECESSARY, INITIAL BACKFILL MATERIALS SHALL BE MOISTENED TO FACILITATE COMPACTION BY TAMPING. IF MATERIALS EXCAVATED FROM THE TRENCH ARE NOT SUITABLE FOR USE AS INITIAL BACKFILL MATERIAL, PROVIDE SELECT MATERIAL CONFORMING TO THE REQUIREMENTS OF THIS SECTION.
- CONTRACTOR SHALL PROVIDE CONTRACTOR GRADE ACRYLIC STRIPING PAINT FOR NEW ASPHALT OR COATED ASPHALT, OR CONTRACTOR GRADE ACRYLIC, ALKYD OR CHLORINATED RUBBER STRIPING PAINT FOR EXISTING ASPHALT AND CONCRETE PAVEMENTS OR RESTRIPIING. MARKING PAINT SHALL BE APPLIED IN DRY WEATHER WHEN PAVEMENT AND ATMOSPHERIC TEMPERATURES ARE 50°F OR ABOVE (OR MFG. SPECIFICATIONS) AND ARE ANTICIPATED TO REMAIN ABOVE 50°F FOR 4 HOURS AFTER COMPLETING APPLICATION. STRIPING AREA SHALL BE CLEANED AND PREPARED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. STRIPING MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.



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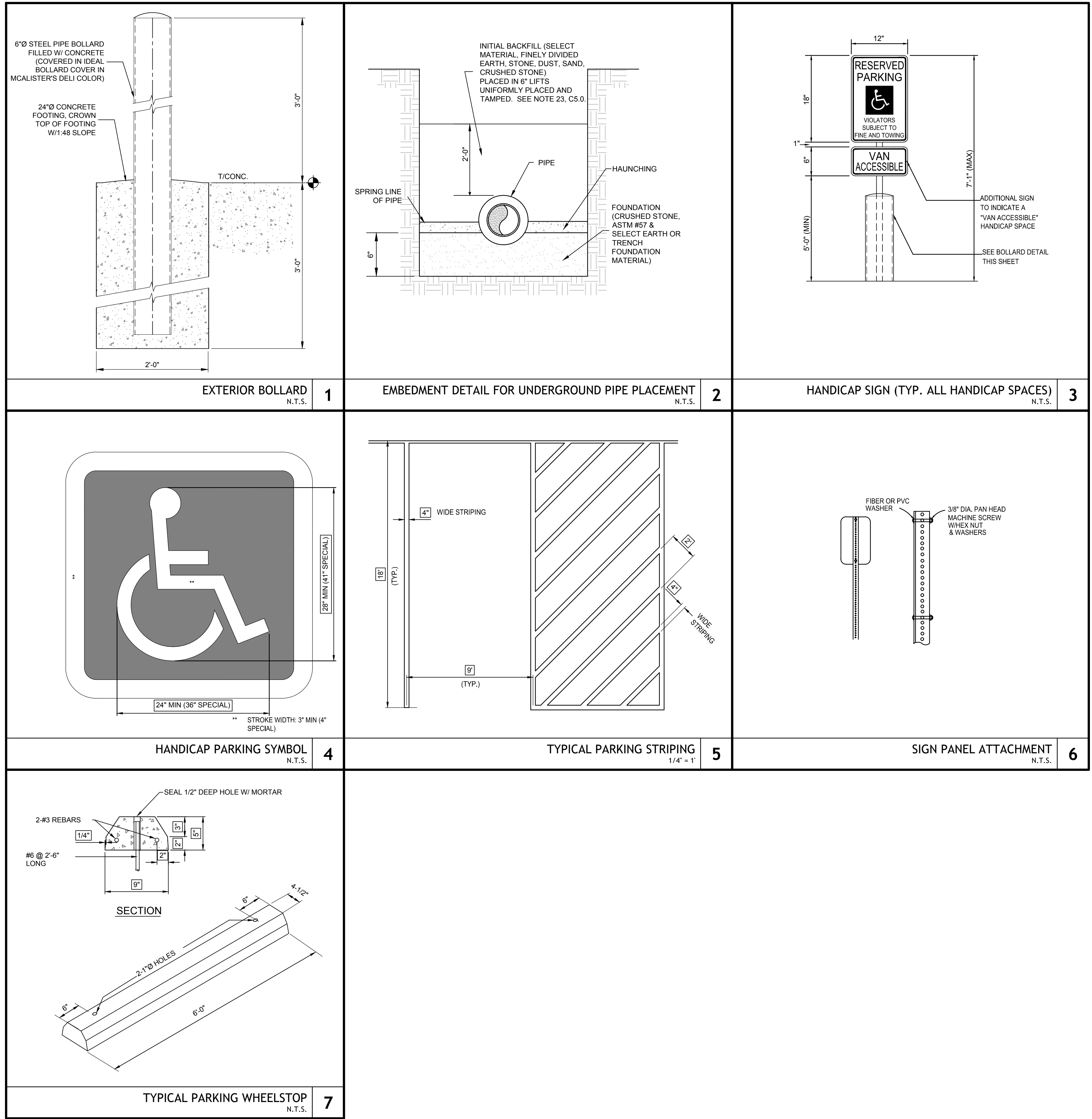
C5.0

SITE CONSTRUCTION
 NOTES & PAVING DETAILS

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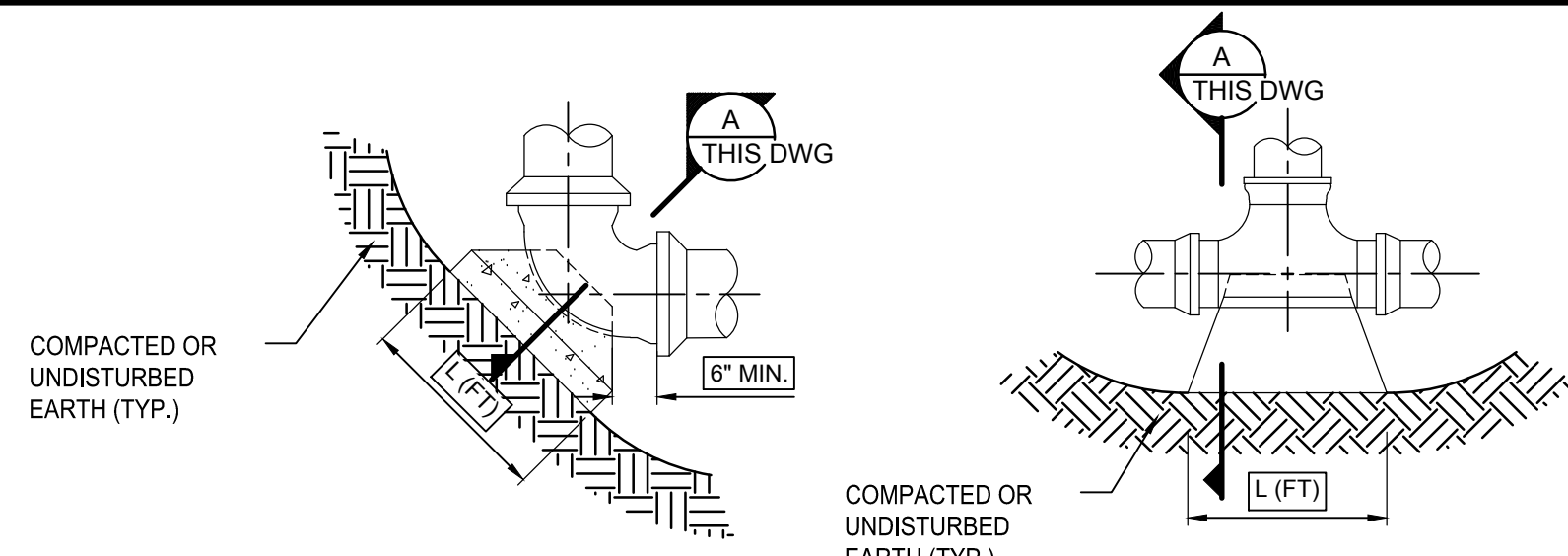
C5.1
MISC. CIVIL SITE DETAILS

WATER LINE CONSTRUCTION DETAIL NOTES :

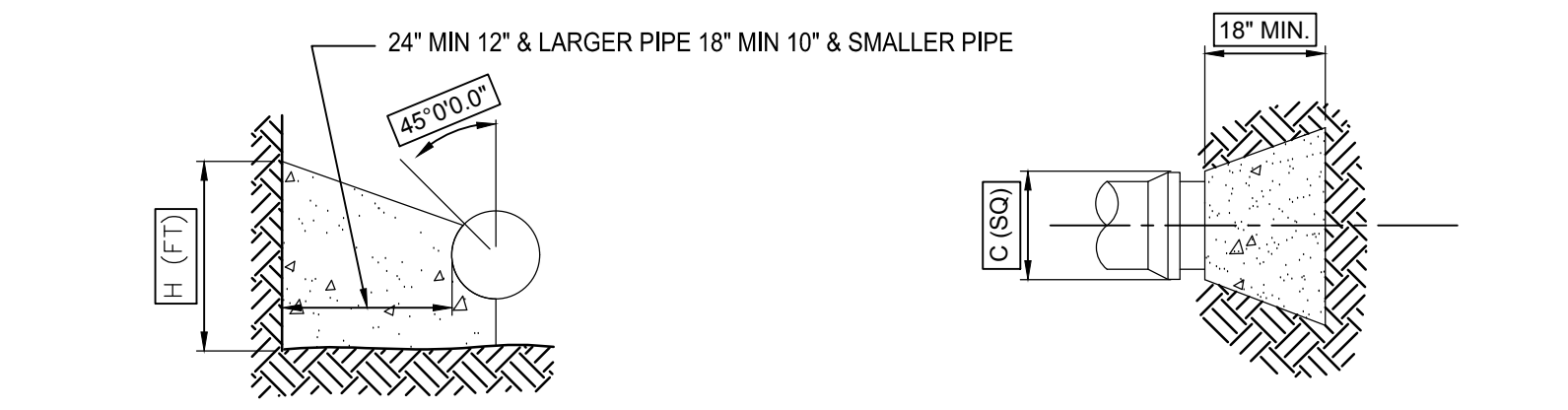
- ALL CONCRETE USED MUST MEET 3,000 LBS PER SQUARE INCH MINIMUM COMPRESSIVE STRENGTH REQUIRED IN 28 DAYS.
- ANY VARIATION IN GRADE WILL BE DEEMED SUFFICIENT REASON TO REJECT AND REBUILD AT CONTRACTOR'S EXPENSE.
- EXCESS EXCAVATION WILL BE REMOVED AND PLACED AS DIRECTED BY THE ENGINEER OR INSPECTOR.
- PRICE BID FOR GATE VALVES SHALL BE FOR ONE GATE VALVE COMPLETE IN PLACE (INCLUDING VALVE STEM EXTENSIONS AND VALVE BOX). THE CONTRACTOR SHALL OPEN ALL VALVES BEFORE DEPARTING PROJECT (SEE VALVE COVER DETAIL).
- 24" MINIMUM COVER WILL BE REQUIRED ON ALL WATER LINES.
- ALL FITTINGS AND MATERIALS NECESSARY FOR THE PROPER INSTALLATION OF WATER LINES SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF CROSSVILLE.
- BEFORE BACKFILLING ANY TRENCH, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. THE CONTRACTOR'S FOREMAN AND ENGINEER SHALL THEN EXAMINE THE LINES AND ALL JOINTS, AND THE CONTRACTOR SHALL CORRECT ANY DEFICIENCIES THAT EXIST.
- ALL LABOR AND MATERIALS FOR WATER SERVICE SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF CROSSVILLE.
- CONNECTION TO EXISTING CITY OF CROSSVILLE WATER SERVICE LINES IS TO BE COORDINATED WITH CITY OF CROSSVILLE.
- CONTRACTOR MUST OPEN FLUSH LINES AND OPEN ALL VALVES BEFORE LEAVING JOB.
- CONTRACTOR MUST CHLORINATE IN ACCORDANCE WITH AWWA C-600.
- ALL WATER PIPE MUST BEAR NSF SEAL.
- ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
- STORM WATER DRAINAGE AND EROSION MUST BE CONTROLLED DURING CONSTRUCTION OF THE PROJECT. CONTRACTOR IS REQUIRED TO FOLLOW THE EROSION CONTROL PLAN. THE COST FOR PROVIDING TEMPORARY SEDIMENT CONTROL ITEMS SHALL BE INCLUDED IN THE ESTABLISHED PRICE FOR THE PROJECT AS A SUBSIDIARY OBLIGATION.
- AT POINTS OF SANITARY SEWER AND WATER LINE CROSSING, LOCATE PIPE SECTION SO THAT JOINTS ARE MAXIMUM POSSIBLE DISTANCE FROM CROSSING. USE 20-FOOT PIPE LENGTHS.
- EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL UTILITY ADJUSTMENTS, AND THERE WILL BE NO ADDITIONAL COMPENSATION FOR THIS COORDINATION, OR ANY DELAYS RESULTING FROM UTILITY ADJUSTMENTS.
- AT NO TIME WILL A VALVE OF THE EXISTING WATER SYSTEM BE OPERATED WITHOUT THE PRESENCE AND AUTHORIZATION OF A CITY OF CROSSVILLE AUTHORIZED REPRESENTATIVE.
- ALL CONSTRUCTION PERFORMED WITHIN THE EXISTING RIGHT-OF-WAYS SHALL BE IN ACCORDANCE WITH THE TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES, LATEST EDITION.
- FIRE HYDRANTS SHALL NOT BE FLUSHED INTO THE PUBLIC STREET RIGHT-OF-WAY.

SANITARY SEWER CONSTRUCTION DETAIL NOTES :

- ALL CONCRETE USED MUST MEET 3,000 LBS PER SQUARE INCH MINIMUM COMPRESSIVE STRENGTH REQUIRED IN 28 DAYS.
- ANY VARIATION IN GRADE WILL BE DEEMED SUFFICIENT REASON TO REJECT AND REBUILD AT CONTRACTOR'S EXPENSE.
- EXCESS EXCAVATION WILL BE REMOVED AND PLACED AS DIRECTED BY THE ENGINEER OR INSPECTOR.
- PRICE BID ON EACH MANHOLE SHALL BE FOR ONE MANHOLE COMPLETE IN PLACE, REGARDLESS OF DEPTH.
- BEFORE BACKFILLING ANY TRENCH, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. THE CONTRACTOR'S FOREMAN AND ENGINEER SHALL THEN EXAMINE THE LINES AND ALL JOINTS, AND THE CONTRACTOR SHALL CORRECT ANY DEFICIENCIES THAT EXIST.
- ALL LABOR AND MATERIALS FOR SANITARY SEWERS SHALL CONFORM TO THE CITY OF CROSSVILLE STANDARDS.
- CONNECTION TO SANITARY SEWER LINES IS TO BE COORDINATED WITH THE CITY OF CROSSVILLE OPERATING PERSONNEL.
- ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
- AT POINTS OF SANITARY SEWER AND WATER LINE CROSSING, LOCATE PIPE SECTION SO THAT JOINTS ARE MAXIMUM POSSIBLE DISTANCE FROM CROSSING. USE 20-FOOT PIPE LENGTHS.
- SANITARY SEWER WYES SHALL BE PLACED AT LOCATIONS IN THE SEWER LINE TO SERVE EACH CONNECTION AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL UTILITY ADJUSTMENTS, AND THERE WILL BE NO ADDITIONAL COMPENSATION FOR THIS COORDINATION, OR ANY DELAYS RESULTING FROM UTILITY ADJUSTMENTS.



DETAIL 3 PLAN - BENDS SCALE: NTS
DETAIL 4 PLAN - TEE SCALE: NTS



BENDS & TEES SCALE: NONE
DETAIL 5 PLAN - ELEV. & PLUGS SCALE: NTS

THRUST BLOCKS

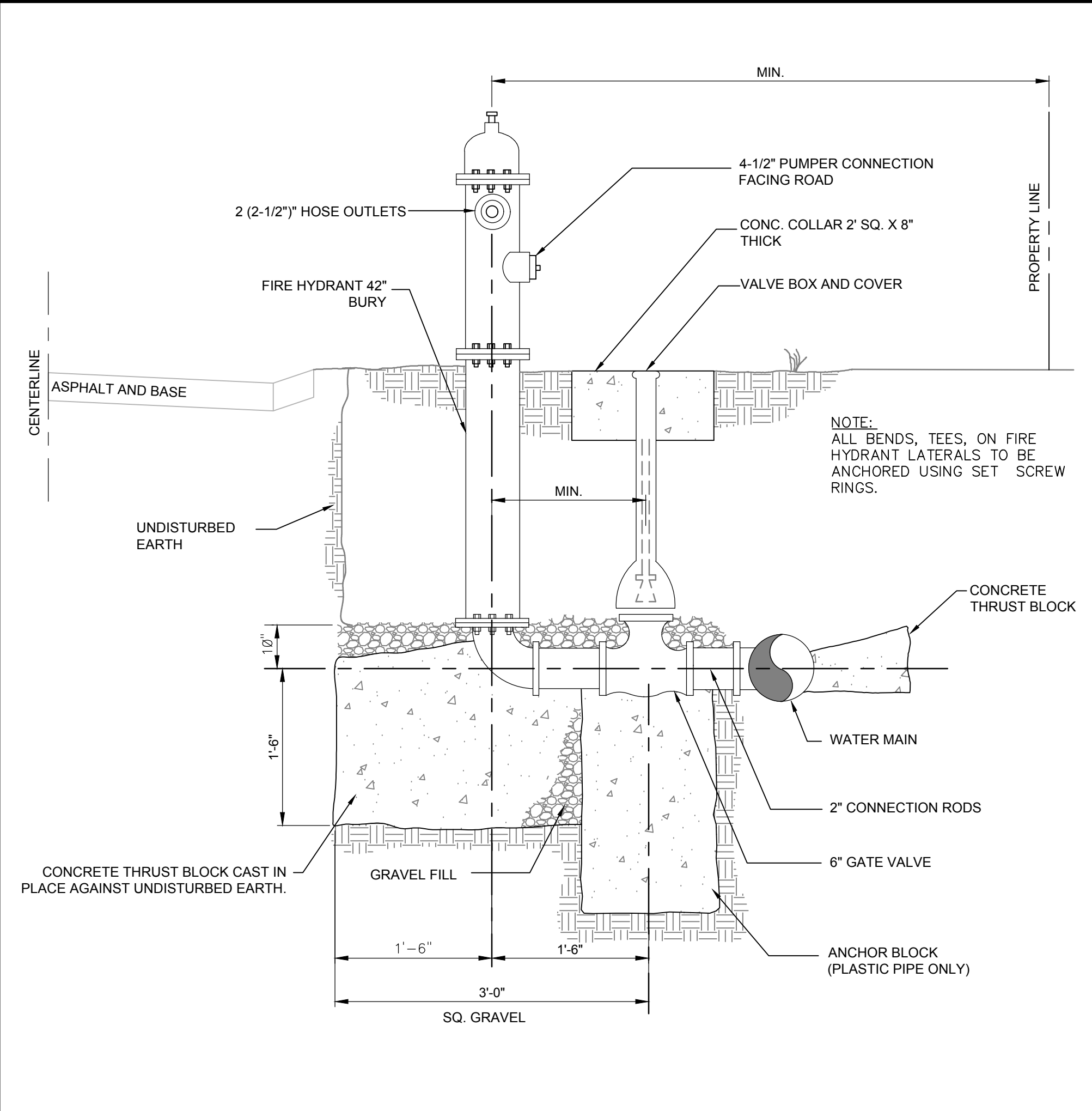
AREA OF BEARING FACE OF CONCRETE THRUST BLOCKS * IN ACCORDANCE WITH NFPA 24

PIPE SIZE (INCHES)	90° ELBOWS (SQ. FT.)	45° ELBOWS (SQ. FT.)	TEE, PLUG, CAPS, HYDRANTS (SQ. FT.)
4	2	2	2
6	2.75	1.75	2.25
8	4.25	2.75	3.25
10	7	3.75	5
12	10	5.5	7
14	13.5	7.5	10
16	17	10	12.25

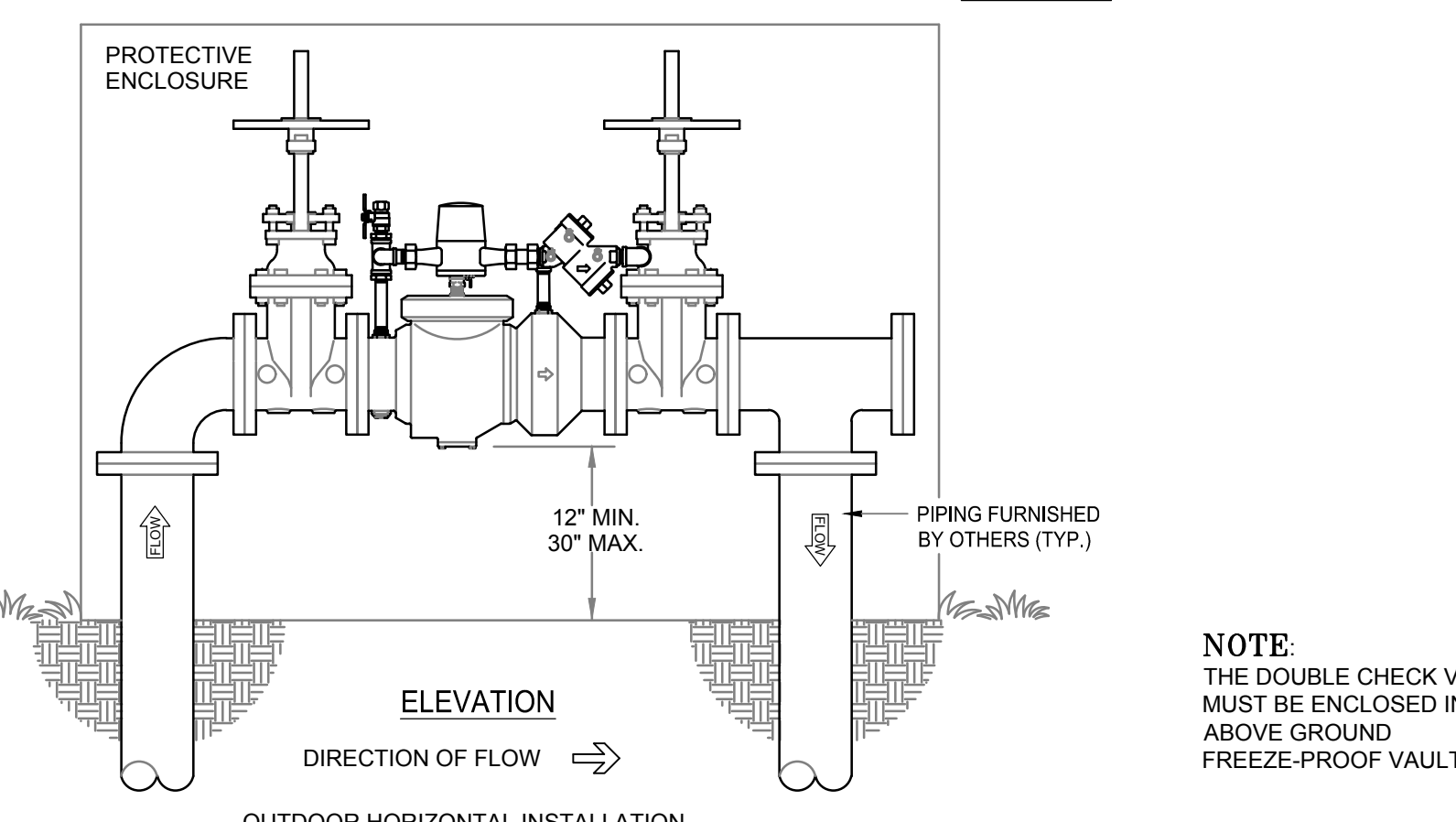
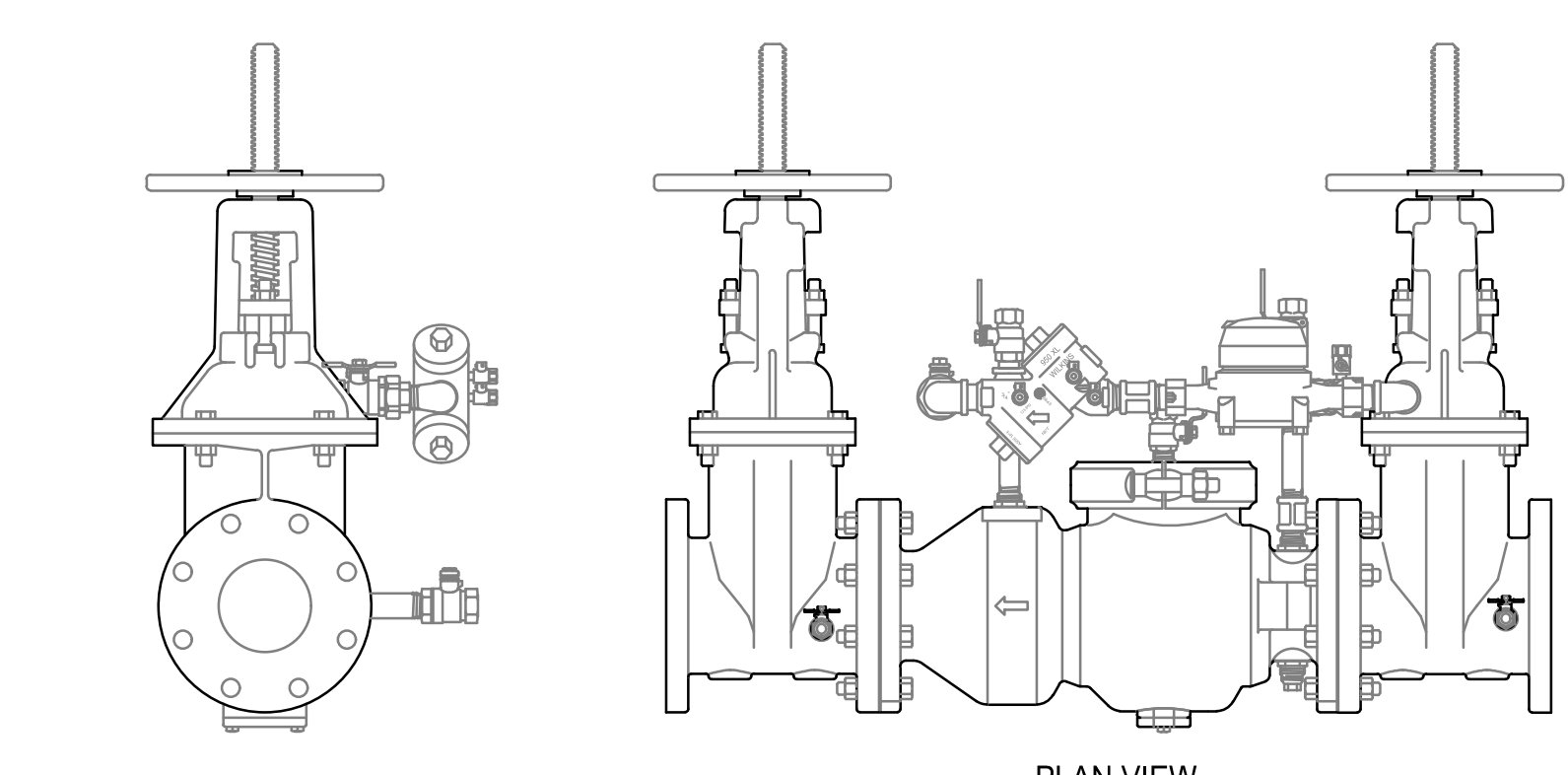
* TABLE GENERATED BASED ON 150 PSIG, AND 2500 PSF SOIL BEARING STRENGTH

NOTES:
 1. LOCATION OF THRUST BLOCKS SHALL BE DETERMINED IN THE FIELD. BLOCKS SHALL REST AGAINST COMPACTED OR UNDISTURBED EARTH THRUST BLOCK AREAS SHOWN ARE FOR SOIL CONDITIONS NOTED. ACTUAL BEARING AREAS SHALL BE DETERMINED USING ACTUAL SOIL CONDITIONS AND DETAILS OF NFPA 24, APPENDIX A.

THRUST BLOCK DETAILS 1
N.T.S.

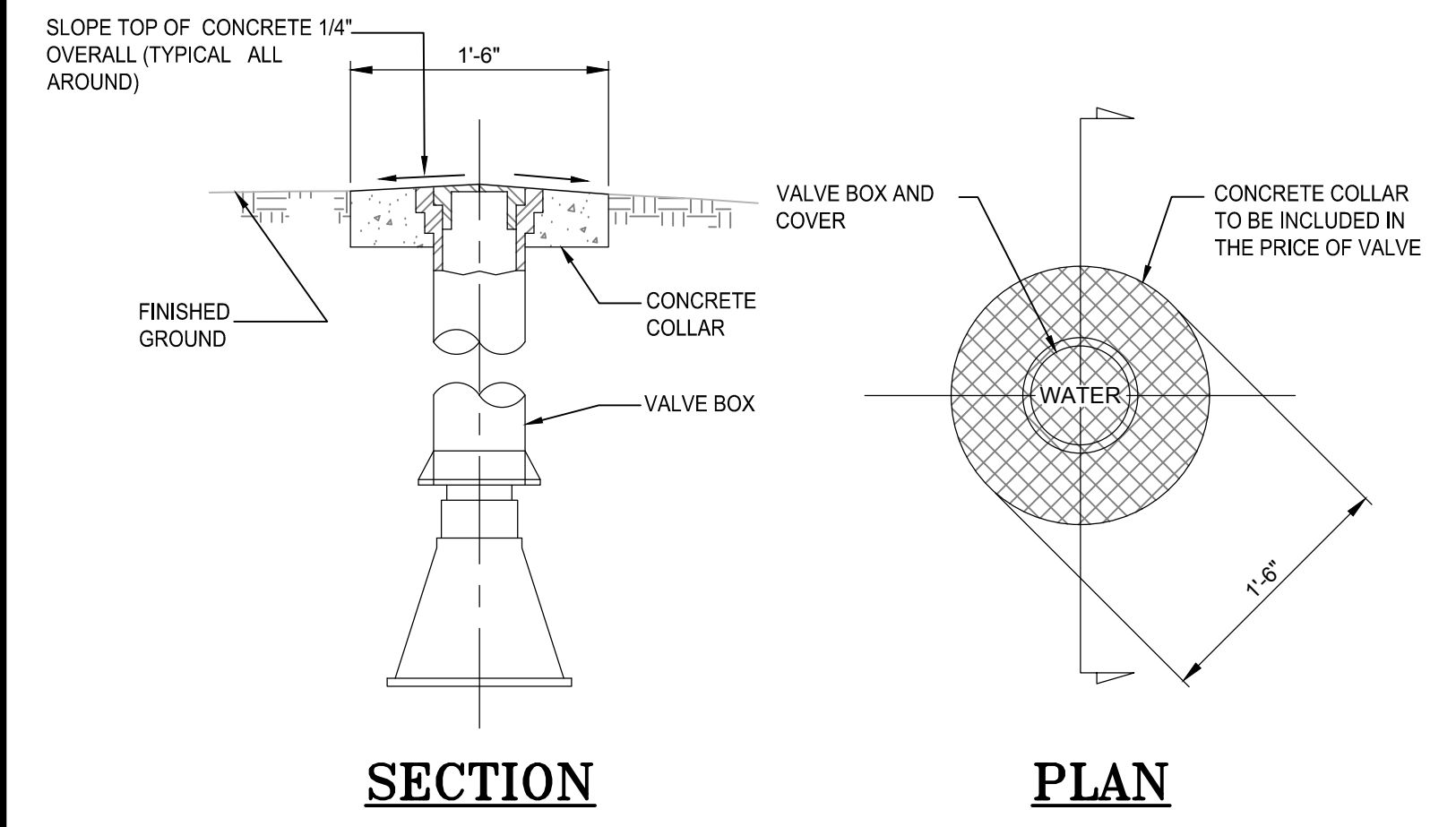


HYDRANT LOCATION AND VALVE 2
SCALE: 1" = 1'

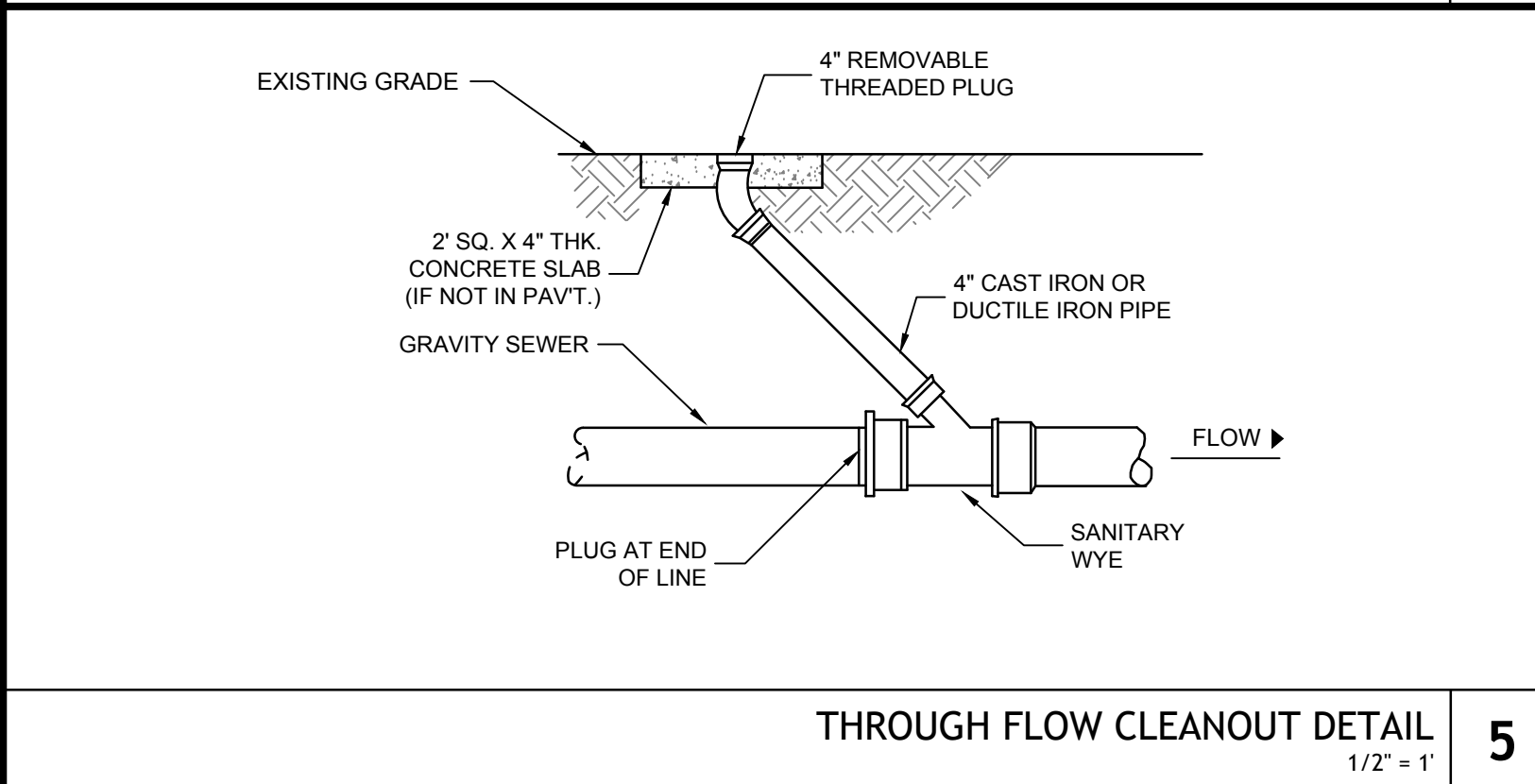


NOTE:
THE DOUBLE CHECK VALVE MUST BE ENCLOSED IN AN ABOVE GROUND FREEZE-PROOF VAULT

DOUBLE CHECK VALVE 3
N.T.S.



VALVE BOX COLLAR DETAIL 4
1/2" = 1'



THROUGH FLOW CLEANOUT DETAIL 5
1/2" = 1'



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PROJECT # 1209.0422A
 ISSUED FOR PERMIT REV 0 02.17.23



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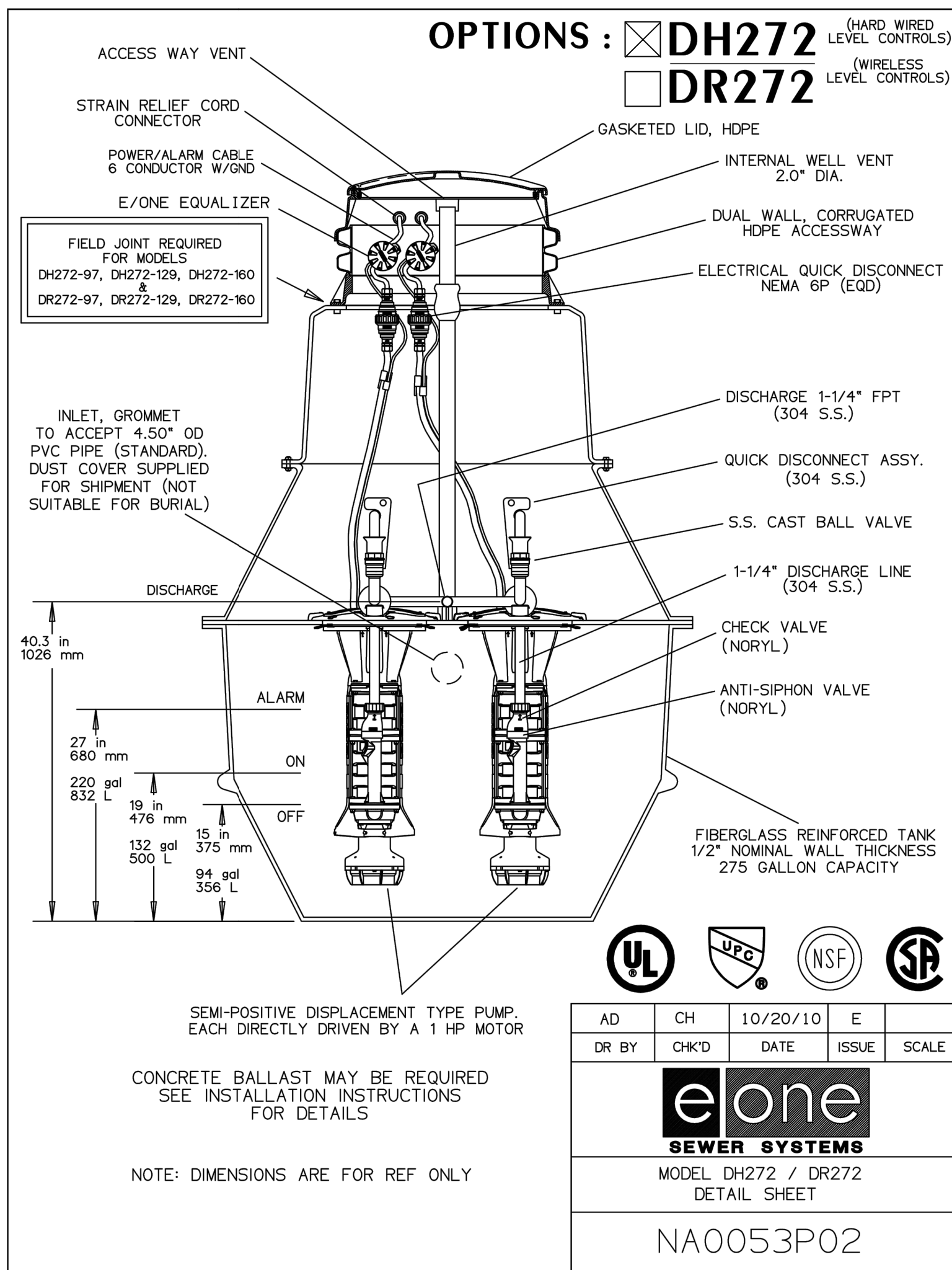
C5.2
 WATER & SEWER DETAILS

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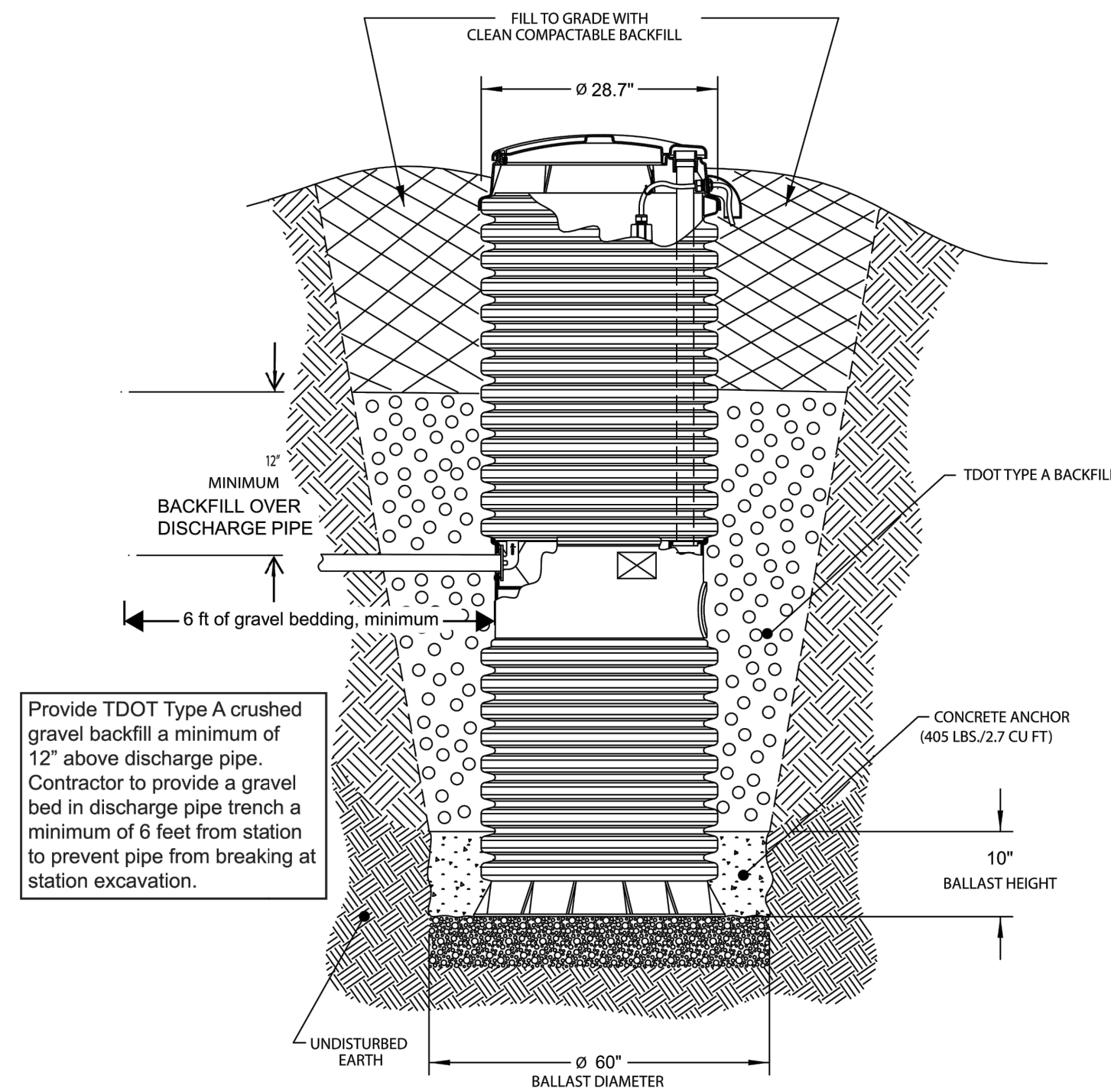


176 Thompson Lane #200, Nashville, TN 615.933.7888(T)

NOTES:
 PRIOR TO INSTALLATION OF AN E/ONE GRINDER PUMP STATION, PLUMBERS AND CONTRACTORS MUST BE CERTIFIED BY E/ONE AND ATTEND A TRAINING COURSE PROVIDED BY THE LOCAL SALES REPRESENTATIVE. EXCAVATE A HOLE TO A DEPTH SO THAT THE REMOVABLE COVER EXTENDS 1" TO 4" ABOVE THE FINISHED GRADE LINE. THE GRADE SHOULD SLOPE AWAY FROM THE UNIT. THE DIAMETER OF THE HOLE MUST BE LARGE ENOUGH TO ALLOW FOR A CONCRETE ANCHOR. PLACE THE UNIT ON A BED OF GRAVEL. USE TYPE A CRUSHED STONE GRADED IN ACCORDANCE WITH TENNESSEE DEPARTMENT OF TRANSPORTATION (TDOT) SECTION 303.01 SPECIFICATIONS. THE UNIT SHOULD BE LEVELED AND THE WET WELL FILLED WITH WATER TO THE BOTTOM OF THE INLET TO HELP PREVENT THE UNIT FROM SHIFTING WHILE THE CONCRETE IS BEING POURED. THE CONCRETE MUST BE VIBRATED TO ENSURE THERE ARE NO VOIDS. (SEE PAGE 4 FOR BALLAST REQUIREMENTS.)



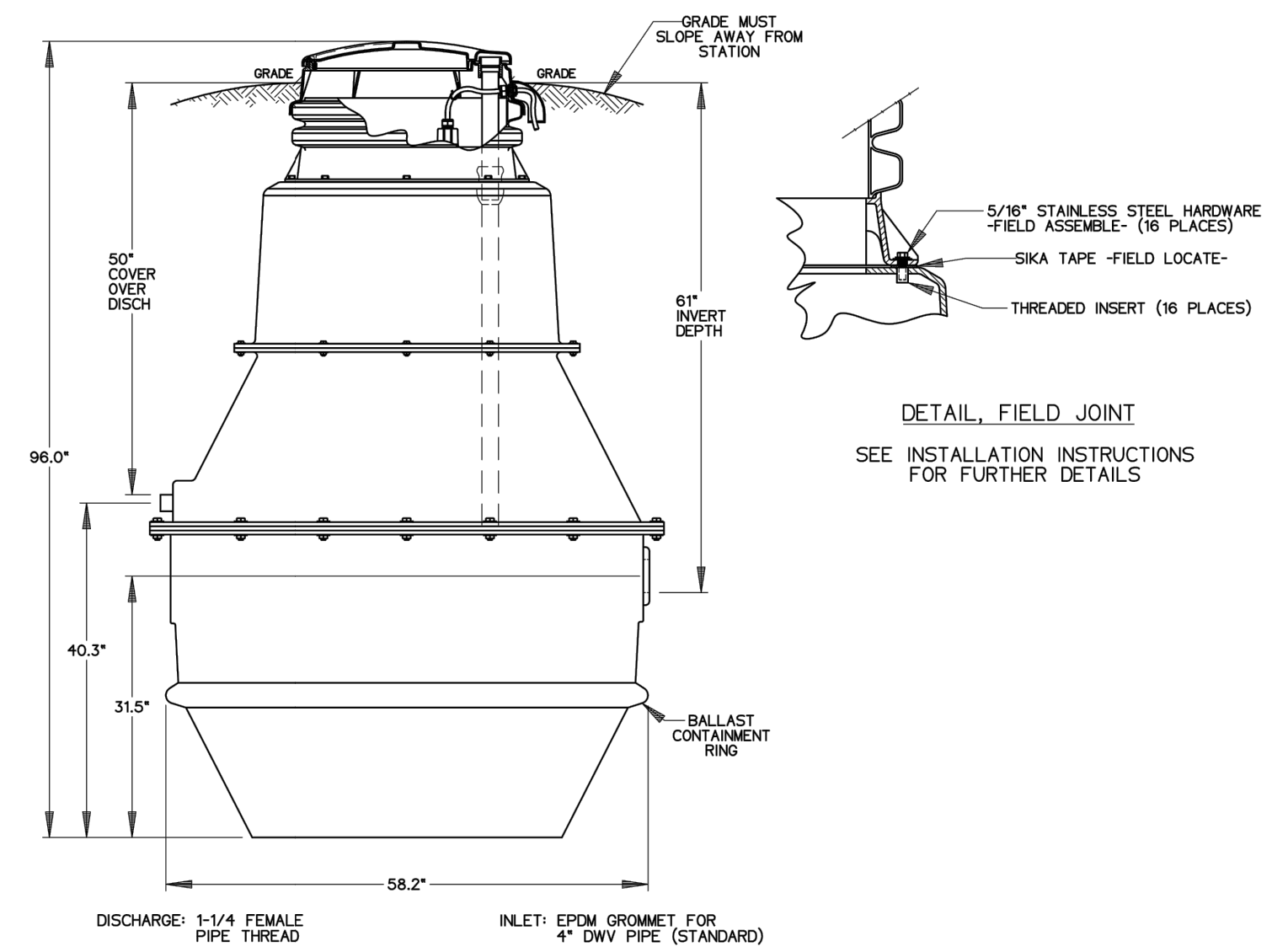
BALLAST REQUIREMENTS



BACKFILL REQUIREMENTS:
 The most highly recommended method of backfilling is to surround the unit to grades shown above using TDOT Type A backfill material as defined in Section 303.01 of the TDOT specifications. Soil placement above crushed gravel layer shall be clean, compactable backfill. Satisfactory soil materials of rock or gravel, not larger than 2\"/>

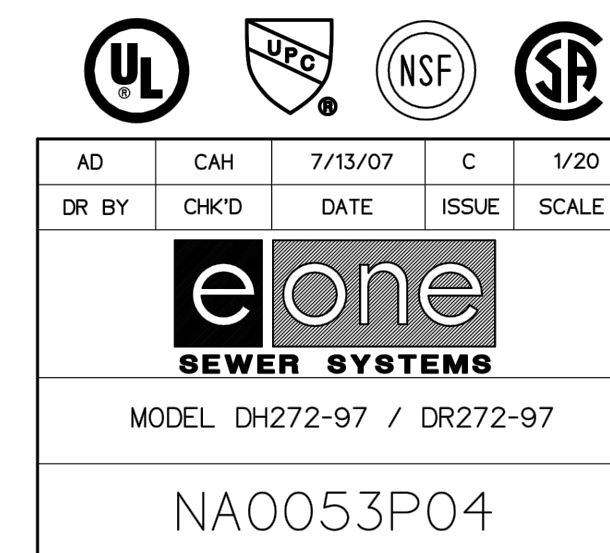
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OPTIONS : DH272-97 (HARD WIRED LEVEL CONTROLS) DR272-97 (WIRELESS LEVEL CONTROLS)

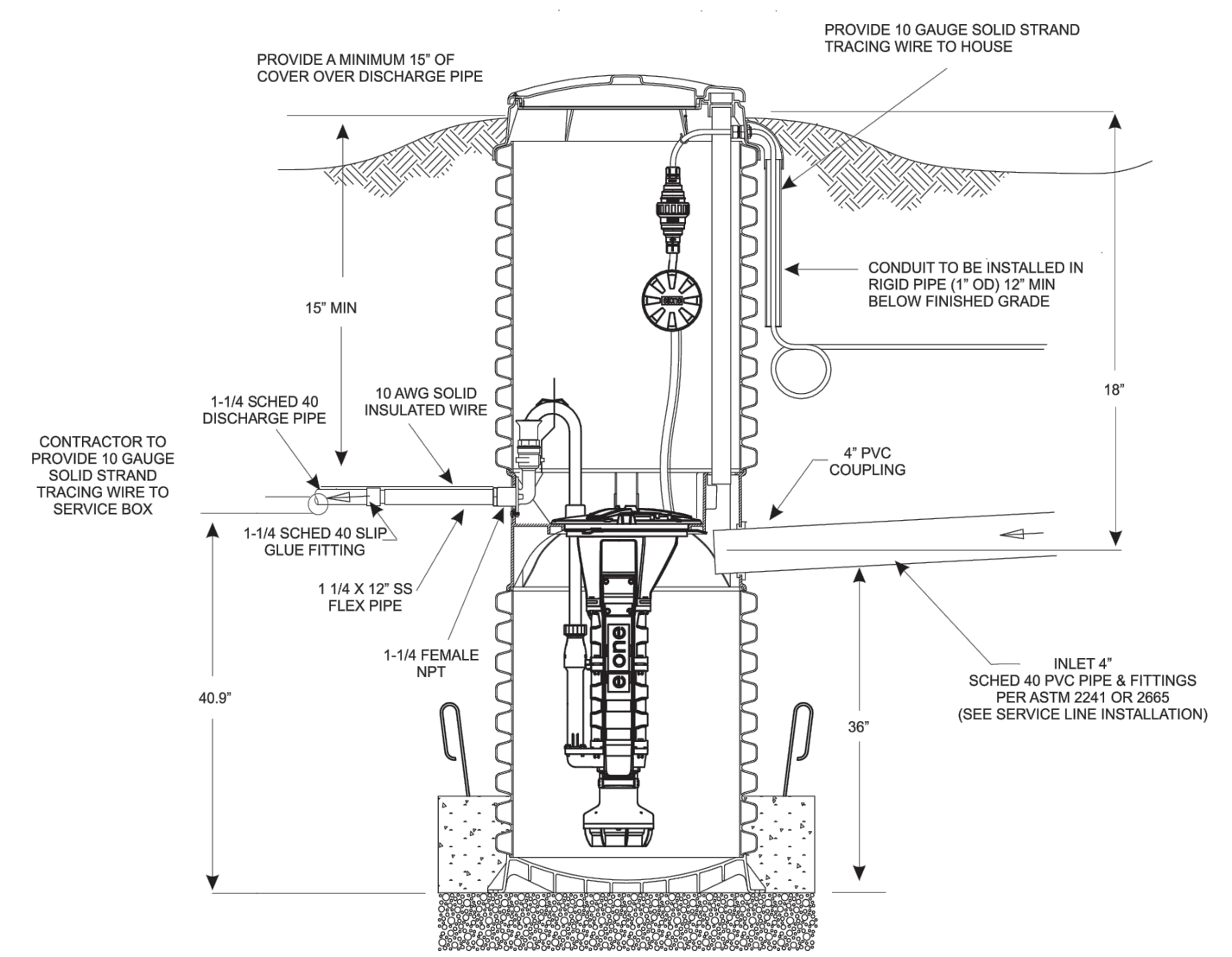


CONCRETE BALLAST MAY BE REQUIRED SEE INSTALLATION INSTRUCTIONS FOR DETAILS

NOTE: DIMENSIONS ARE FOR REF ONLY



PLUMBING REQUIREMENTS



Notes:
 1. No permanent obstructions within 6' (feet) of pump or discharge lines
 2. Cleanout is to be placed immediately upstream from the pump basin.

3. Mark the inlet Pipe 3 1/2\"/>

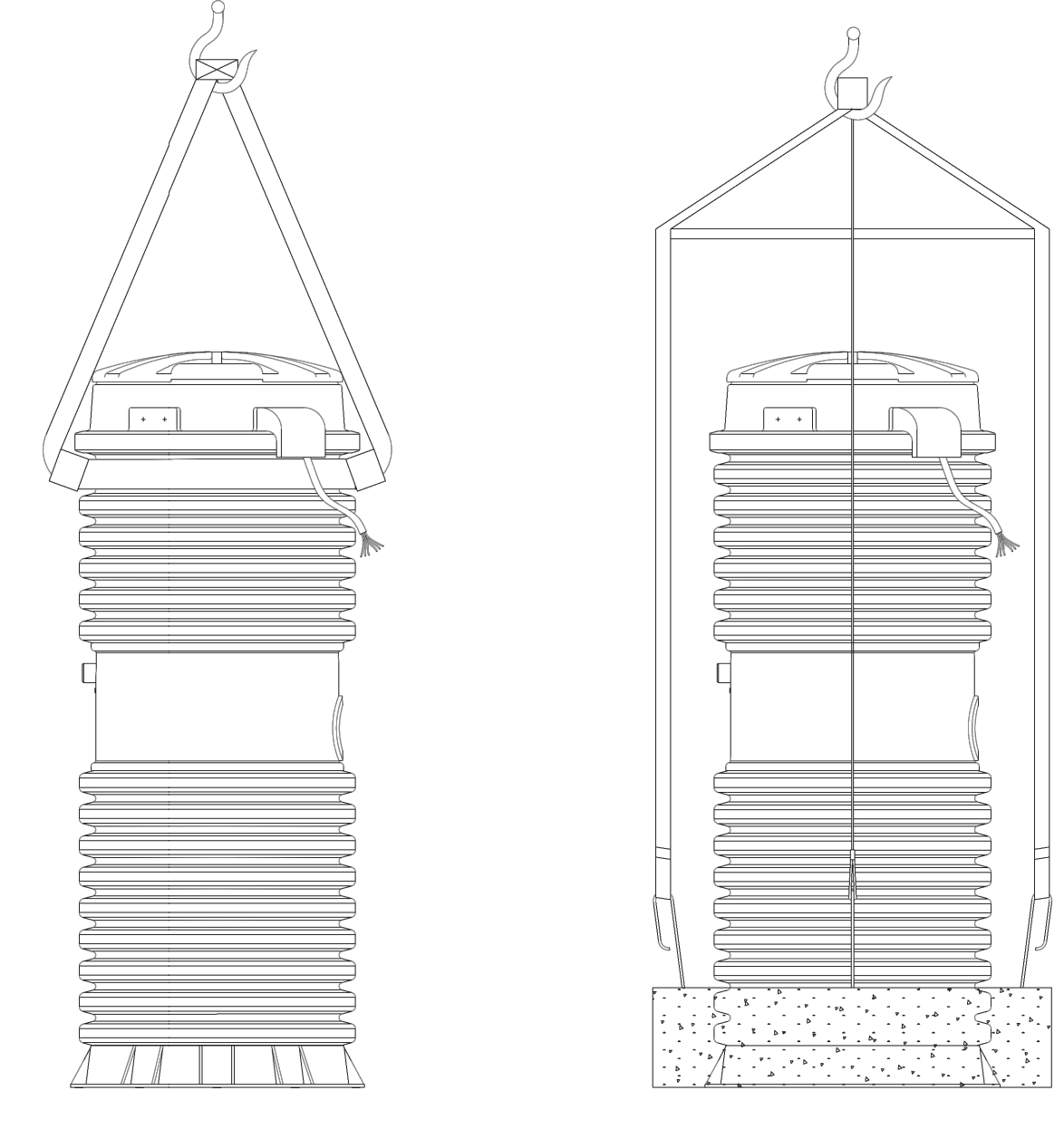
4. Provide a Redundant Check Valve Assembly (E/One part no. PC0051GXX) to be installed between the pump discharge and the street main on all installations. Never use a ball type valve as a check valve. E/One recommends the valve be installed as close to the public right-of-way as possible.

5. The unit must be properly vented to assure correct operation of the pump. The outdoor units are supplied with a vent pipe from the wet well to the top of the accessway.

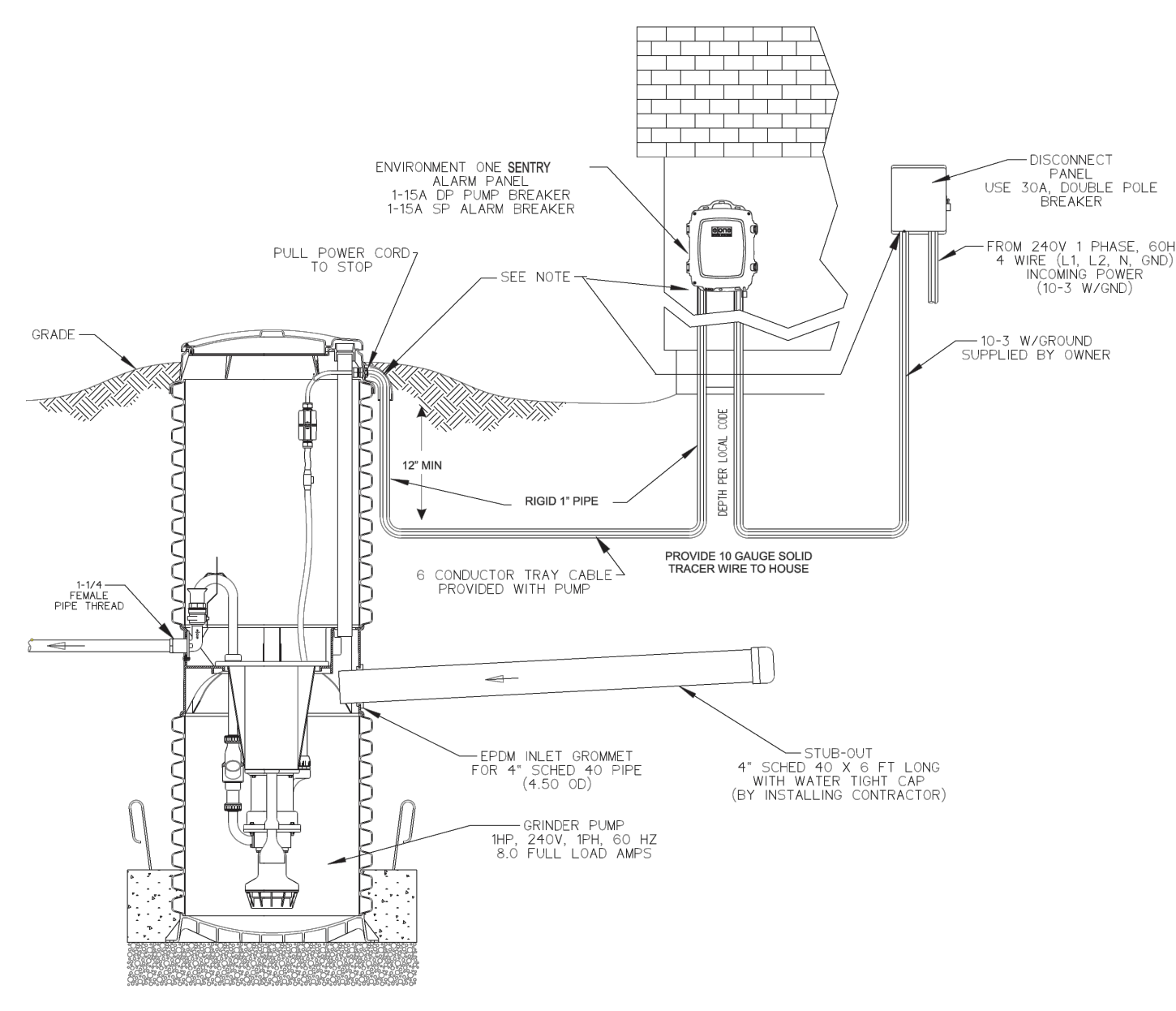
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LIFTING REQUIREMENTS

1. Transporting unit to installation site: Always lift a unit from the bottom for the purpose of transportation. The station should be received attached to a pallet for this purpose. **Never roll a station or move it on its side.**
2. No Ballast (to be poured in place): If the concrete anchor is to be poured while the station is in place lift the unit using 2 nylon straps wrapped around the accessway making a sling, as shown below. Keep station oriented vertically to avoid any damage. Only lift from the accessway to put unit in hole, not for moving any distance.
3. Precast Ballast: Never lift a station that has a ballast attached by any means except in place lift the unit using 2 nylon straps wrapped around the concrete will damage the station if you attempt to lift it from any part of the station.



ELECTRICAL REQUIREMENTS



Note:
 - Seal around wire inside alarm panel with foam spray insulation or a sealant that is approved for electrical applications.

Alarm Device:
 - Every installation is to have an alarm device to alert the homeowner of a potential malfunction

Disconnect:
 - Nema 3R or better enclosure with circuit breakers or disconnect switch to be located according to local codes

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ISSUED FOR PERMIT REV 0

02.17.23



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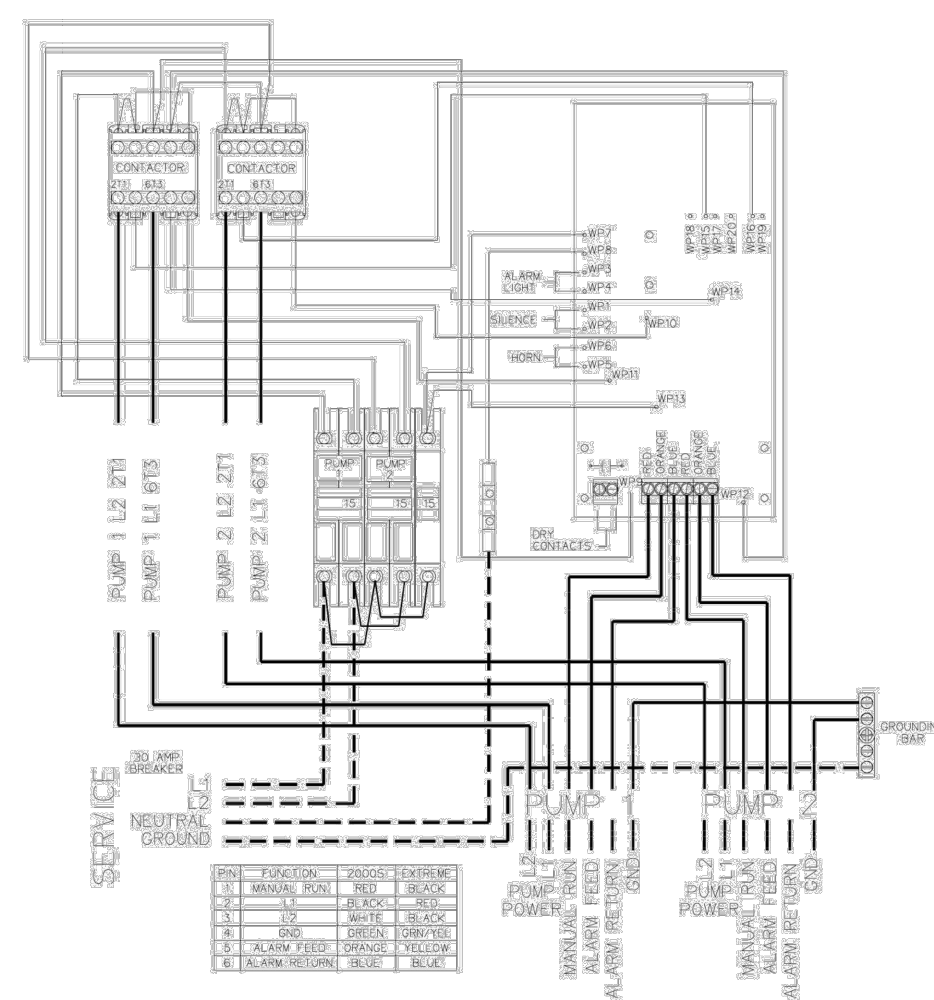
C5.3
 SEWER DETAILS
 (SHEET 1 OF 2)

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WIRING REQUIREMENTS DUPLIX

Note: All E/One Stations use single phase, 240 Volt power (No 208 Voltage)



A cable must be run from the home or business owners main breaker panel to within 20 feet of the grinder pump installation. Cable size is to be 8/3 with ground. A 40 amp Disconnect must be mounted outside within 20 feet of the station. The disconnect may be mounted on an outside wall or if there isn't a building within 20 feet it can be mounted on a 4" x 4" post. The disconnect and the Environment One alarm panel should be mounted no lower than 3 feet from finished grade and no higher than 6 feet from finished grade. Use the E/One supply cable to connect the station to the Alarm Panel. Locate the cable and the feed-thru connector on the wall of the shroud inside the station. Loosen the nut on the connector and pull the supply cable out through the connector until it hits the crimped on stop feature on the cable, approximately 24" from the EQD. Retighten the nut. This connection must be tight or ground water will enter the station. Make all connections per "Electrical Requirement " on page 6.

****IMPORTANT:** All but 24" of the cable must be pulled out of the station, and the portion of the cable between the EQD and the molded in cable breather should be secured in the hook provided to ensure that the pump functions properly. Do not leave the excess cable in the station.

NOTE: Wiring must be installed per national and local codes. Conduit must enter panel from bottom and be sealed per NEC section 300.5 & 300.7.

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START-UP REQUIREMENTS

DEBRIS REMOVAL: Prior to start-up test procedure, the core must be removed and the incoming sewer line flushed to force all miscellaneous debris into the tank. Next, all liquid and debris must be removed. Once tank is clean, re-install the pump and proceed with the test.

TEST PROCEDURE: When the system is complete and ready for use, the following steps should be taken to verify proper installation and operation:

- Make sure that the discharge shutoff valve is fully open. This valve must not be closed when the pump is operating. In some installations there may be a valve, or valves, at the street main that must also be open.
- Turn ON the alarm power circuit breaker.
- Fill tank with water until the alarm turns ON. Shut off water.
- Turn ON pump power circuit breaker; the pump should turn on immediately. Within one minute the alarm will turn off. Within three minutes the pump will turn off.



Environment One Corporation
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Niskayuna, New York 12309-1090

Voice: (01) 518.346.6161
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www.eone.com

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C5.4
SEWER DETAILS
(SHEET 2 OF 2)

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